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GENERAL NOTES

1.

CITY OF COLUMBUS AND OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITIONS, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED. IF A CONFLICT BETWEEN SPECIFICATIONS IS FOUND, THE MORE STRICT SPECIFICATION WILL APPLY AS DECIDED BY THE CITY ENGINEER. ITEM NUMBERS LISTED REFER TO CITY OF COLUMBUS ITEM NUMBERS UNLESS OTHERWISE NOTED.
2.

THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO CONTRACT DOCUMENTS.
3.

THE DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO OHIO EPA PERMITS TO INSTALL (PTI) AND NOTICES OF INTENT (NOI), BUILDING PERMITS, ETC.
4.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING IN WRITING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
5.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE PRECAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.
6.

FOLLOWING COMPLETION OF CONSTRUCTION OF THE SITE IMPROVEMENTS AND BEFORE REQUESTING OCCUPANCY, A PROOF SURVEY SHALL BE PROVIDED TO THE DIVISION OF ENGINEERING THAT DOCUMENTS "AS-BUILT" ELEVATIONS, DIMENSIONS, SLOPES AND ALIGNMENTS OF ALL ELEMENTS OF THIS PROJECT. THE PROOF SURVEY SHALL BE PREPARED, SIGNED AND SUBMITTED BY THE PROFESSIONAL ENGINEER WHO SEALED THE CONSTRUCTIONS DRAWINGS.
7.

THE CONTRACTOR SHALL RESTRICT CONSTRUCTION ACTIVITY TO PUBLIC RIGHT-OF-WAY AND AREAS DEFINED AS PERMANENT AND/OR TEMPORARY CONSTRUCTION EASEMENTS, UNLESS OTHERWISE AUTHORIZED BY THE CITY ENGINEER.
8.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCHMARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER.
9.

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.
10.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATERCOURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.
11.

TRACKING OR SPILLING MUD, DIRT OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS OR BIKE PATHS IS PROHIBITED ACCORDING TO SECTION 97.38 OF THE DUBLIN CODE OF ORDINANCES. ANY SUCH OCCURENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE CITY. IF THE CONTRACTOR FAILS TO REMOVE SAID MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12.

DISPOSAL OF EXCESS EXCAVATION WITHIN SPECIAL FLOOD HAZARD AREAS (100-YEAR FLOODPLAIN) IS NOT PERMITTED.
13.

ALL SIGNS, LANDSCAPING, STRUCTURES OR OTHER APPURTENANCES WITHIN RIGHT-OF-WAY DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14.

ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED AND CONNECTED TO THE PUBLIC STORM SEWER SYSTEM AS DIRECTED BY THE CITY ENGINEER. THE COST OF THIS WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15.

ALL PRECAST CONCRETE PRODUCTS SHALL BE INSPECTED AT THE LOCATION OF MANUFACTURE. APPROVED PRECAST CONCRETE PRODUCTS WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT INSPECTION HAS BEEN CONDUCTED BY THE CITY OF COLUMBUS. PRECAST CONCRETE PRODUCTS WITHOUT PROOF OF INSPECTION SHALL NOT BE APPROVED FOR INSTALLATION.
16.

BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (HOUSES, GARAGES, ETC.) OR PUBLIC INFRASTRUCTURE (PAVEMENT, CURBS, SIDEWALKS, BIKE PATHS, ETC.) SHALL BE COMPACTED GRANULAR BACKFILL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR FLOWABLE CDF, TYPE III ACCORDING TO ITEM 636. ITEM 911 OF THE STANDARD SPECIFICATIONS SHALL BE USED ELSEWHERE.
17.

THE CONTRACTOR SHALL SUBMIT A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND A LIST OF PROPOSED PRECAST CONCRETE PRODUCT MANUFACTURERS TO THE CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION BEFORE COMMENCING CONSTRUCTION.
- SEND THE INFORMATION TO THE FOLLOWING ADDRESS:  
CONSTRUCTION INSPECTION DIVISION  
CITY OF COLUMBUS  
1800 EAST 17TH AVENUE  
COLUMBUS, OHIO 43219
- SEND A COPY OF THE TRANSMITTAL LETTER TO THE FOLLOWING ADDRESS:  
DIVISION OF ENGINEERING  
CITY OF DUBLIN  
5800 SHIER RINGS ROAD  
DUBLIN, OHIO 43016
18.

ALL TRENCHES WITHIN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.
19.

ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM 15 FEET FROM THE TREE TRUNK. TREES 6-INCHES OR GREATER AT DBH (DIAMETER BREAST HEIGHT) MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER. TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.

20.

CONDUIT MUST BE DIRECTIONALLY BORED ACROSS STREETS INSTEAD OF OPEN CUT, UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER. USE OF PNEUMATIC AIR RAM DEVICES IS NOT PERMITTED. PERMITS TO CONSTRUCT IN THE RIGHT-OF-WAY OF EXISTING STREETS MUST BE OBTAINED FROM THE CITY OF DUBLIN DIVISION OF ENGINEERING BEFORE COMMENCING CONSTRUCTION. SHOULD OPEN CUTTING OF EXISTING PAVEMENT BE PERMITTED, CONTROLLED DENSITY BACKFILL (TYPE III) SHALL BE USED IN PLACE OF COMPACTED GRANULAR BACKFILL, ACCORDING TO ITEM 636 OF THE STANDARD SPECIFICATIONS.
21.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF TRENCHES WITHIN THE RIGHT-OF-WAY AND PUBLIC EASEMENTS FOR A PERIOD OF ONE YEAR FROM THE FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.
22.

PAVEMENTS SHALL BE CUT IN NEAT, STRAIGHT LINES THE FULL DEPTH OF THE EXISTING PAVEMENT, OR AS REQUIRED BY THE CITY ENGINEER. PAVEMENT REPLACEMENT SHALL BE CONDUCTED ACCORDING TO CITY OF COLUMBUS STANDARD DRAWING 1441 DR. A AND APPLICABLE CITY OF DUBLIN STANDARD DRAWINGS. THE REPLACEMENT OF DRIVEWAYS, HANDICAPPED RAMPS, SIDEWALKS, BIKE PATHS, PARKING LOT PAVEMENT, ETC. SHALL BE PROVIDED ACCORDING TO THE APPROVED CONSTRUCTION DRAWINGS AND CITY OF DUBLIN STANDARD CONSTRUCTION DRAWINGS.
23.

TREE TRIMMING WITHIN THE CONSTRUCTION ZONE IS TO BE COMPLETED BY A CERTIFIED ARBORIST. AT THE COMPLETION OF THE PROJECT, THE ARBORIST IS TO RETURN AND TRIM ANY BROKEN BRANCHES AS NEEDED.
24.

ANY MODIFICATION TO THE WORK SHOWN ON DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE CITY ENGINEER, CITY OF DUBLIN.
25.

ALL INLETS SHALL BE CHANNELIZED.
26.

PARK AREAS SHALL BE FINE-GRADED AND SEEDED WITH THE FOLLOWING MIXTURE:  
IMPROVED KENTUCKY BLUEGRASS: 40% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)  
IMPROVED PERENNIAL RYE: 60% OF WEIGHT (2 VARIETIES IN EQUAL PARTS)  
GERMINATION RATE: 85%  
APPLICATION RATE: 7 LBS PER 1000 SQ FT OR AS DIRECTED BY THE DIVISION OF PARKS AND RECREATION, CITY OF DUBLIN, OHIO.
27.

TRAFFIC CONTROL AND OTHER REGULATORY SIGNS SHALL BE TYPE S WITH A SQUARE POST ANCHOR BASE INSTALLATION AND MEET ALL REQUIREMENTS OF ODOT TC-41.20 AND APPLICABLE CITY OF DUBLIN SPECIFICATIONS.
28.

STREET SIGNS SHALL MEET ALL CITY OF DUBLIN SPECIFICATIONS WITH LETTERING COLORED IN WHITE DISPLAYED OVER A BROWN BACKGROUND. SIGN TUBING SHALL BE BROWN IN COLOR AND CONFORM WITH THE TYPE S, SQUARE POST ANCHOR BASE INSTALLATION REQUIREMENTS OF ODOT TC-41.20.

UTILITIES

1.

THE FOLLOWING UTILITIES ARE KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:  

COLUMBIA GAS OF OHIO  
290 W. NATIONWIDE BLVD  
COLUMBUS, OHIO 43215  
1-800-440-6111

CITY OF COLUMBUS DIVISION OF POWER AND WATER (WATER)  
910 DUBLIN ROAD, 2ND FLOOR  
COLUMBUS, OHIO 43215  
(614) 6445-7677

AMERICAN ELECTRIC POWER  
ROBIN HAND  
ENGINEERING LIAISON COORDINATOR  
850 TECH CENTER DRIVE  
GAHANNA, OHIO 43230-6605  
(614) 883-6829

CITY OF DUBLIN DIVISION OF ENGINEERING  
TODD GARWICK, P.E.  
5800 SHIER RINGS ROAD  
DUBLIN, OHIO 43016  
(614)410-4665

WIDE OPEN WEST  
KEN HOLDERFIELD  
ENGINEERING MANAGER  
3675 CORPORATE DRIVE  
COLUMBUS, OHIO 43231  
(614) 236-3922

TIME WARNER CABLE  
KEVIN RICH  
1266 DUBLIN ROAD  
COLUMBUS, OHIO 43215  
(614) 481-5263
2.

THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764), PRODUCER'S UNDERGROUND PROTECTION SERVICE (TELEPHONE NUMBER 614-587-0486), AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.
3.

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN AND THE CITY ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.
4.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER SHOWN OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5.

WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE CITY ENGINEER.
6.

PUBLIC STREET LIGHTING MAY BE IN THE VICINITY OF THIS PROJECT. CONTACT THE CITY OF DUBLIN, DIVISION OF ENGINEERING AT 410-4637, TWO DAYS PRIOR TO BEGINNING WORK.

TRAFFIC CONTROL

1.

TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), CURRENT EDITION.
2.

ALL TRAFFIC LANES OF PUBLIC ROADWAYS SHALL BE FULLY OPEN TO TRAFFIC FROM 7:00 AM TO 9:00 AM AND FROM 4:00 PM TO 6:00 PM UNLESS AUTHORIZED DIFFERENTLY BY THE CITY ENGINEER. AT ALL OTHER HOURS THE CONTRACTOR SHALL MAINTAIN MINIMUM ONE-LANE TWO-WAY TRAFFIC. UNIFORMED, OFF-DUTY POLICE OFFICERS SHALL REPLACE FLAGMEN DESIGNATED BY THE OMUTCD, AND SHALL BE PRESENT WHENEVER ONE-LANE, TWO-WAY TRAFFIC CONTROL IS IN EFFECT. POLICE CRUISERS MAY BE REQUIRED AS DIRECTED BY THE CITY ENGINEER.
3.

IF THE CITY ENGINEER DETERMINES THAT THE CONTRACTOR IS NOT PROVIDING PROPER PROVISIONS FOR TRAFFIC CONTROL, THE CITY ENGINEER SHALL ASSIGN UNIFORMED, OFF-DUTY POLICE OFFICERS TO THE PROJECT AT NO COST TO THE CITY.
4.

STEADY-BURNING, TYPE "C" LIGHTS SHALL BE REQUIRED ON ALL BARRICADES, DRUMS, AND SIMILAR TRAFFIC CONTROL DEVICES IN USE AT NIGHT.
5.

ACCESS FROM PUBLIC ROADWAYS TO ALL ADJOINING PROPERTIES FOR EXISTING RESIDENTS OR BUSINESSES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT FOR MAIL, PUBLIC WATER AND SANITARY SEWER SERVICE, AND EMERGENCY VEHICLES. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN DETAILING THE PROPOSED MAINTENANCE OF TRAFFIC PROCEDURES. THE TRAFFIC CONTROL PLAN MUST INCORPORATE ANY TRAFFIC CONTROL DETAILS CONTAINED HEREIN. THE TRAFFIC CONTROL PLAN PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO CONSTRUCTION.

EROSION AND SEDIMENT CONTROL

1.

THE CONTRACTOR OR DEVELOPER IS RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT (NOI) TO BE REVIEWED AND APPROVED BY THE OHIO EPA. THE NOI MUST BE SUBMITTED TO OEPA 45 DAYS PRIOR TO THE START OF CONSTRUCTION AND MAY ENTITLE COVERAGE UNDER THE OHIO EPA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. A PROJECT LOCATION MAP MUST BE SUBMITTED WITH THE NOI. A SEDIMENT AND EROSION CONTROL PLAN MUST BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL IF A SEDIMENT AND EROSION CONTROL PLAN HAS NOT ALREADY BEEN INCLUDED WITH THE APPROVED CONSTRUCTION DRAWINGS. THIS PLAN MUST BE MADE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE DESIGN OF EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER. AN INDIVIDUAL NPDES STORMWATER DISCHARGE PERMIT MAY BE REQUIRED. THE CONTRACTOR SHALL BE CONSIDERED THE PERMITTEE.
2.

THE CONTRACTOR SHALL PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF LEAVES THE PROJECT, INCLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.
3.

ACCEPTED METHODS OF PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT BASINS, SILT FILTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. HAY OR STRAW BALES ARE NOT PERMITTED.
4.

THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH EROSION CONTROL PRACTICES.
5.

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

USE OF BLASTING NOTE 1 DELETED

SANITARY SEWERS

1.

CONNECTIONS TO THE SANITARY SEWER WILL BE PERMITTED UPON RECEIVING AN OEPA PERMIT TO INSTALL (PTI), AND UPON RECEIVING A SATISFACTORY LETTER FROM THE DESIGN ENGINEER STATING THAT THE PROJECT HAS BEEN CONSTRUCTED AS PER THE PLANS, AND ALL OF THE CONDITIONS OF THE PTI HAVE BEEN MET. THE DEVELOPER IS RESPONSIBLE FOR OBTAINING ALL REQUIRED OHIO EPA APPROVALS AND PAYING REVIEW FEES.
2.

SANITARY SEWAGE COLLECTION SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS OF THE CITY OF DUBLIN, OHIO EPA, OHIO DEPARTMENT OF HEALTH AND THE CURRENT EDITION OF THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD (TEN STATES) - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES.
3.

THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPE WITH DIAMETERS 15 INCHES AND SMALLER SHALL BE REINFORCED CONCRETE PIPE ASTM C76 CLASS 3, OR PVC SEWER PIPE ASTM D3034, SDR 35. PIPE FOR 6-INCH DIAMETER HOUSE SERVICE LINES SHALL BE PVC PIPE ASTM D3034, SDR 35. PVC PIPE SHALL NOT BE USED AT DEPTHS GREATER THAN 28 FEET. PIPE MATERIALS AND RELATED STRUCTURES SHALL BE SHOP TESTED IN ACCORDANCE WITH CITY OF COLUMBUS CONSTRUCTION INSPECTION DIVISION QUALITY CONTROL REQUIREMENTS.
4.

THE MINIMUM REQUIREMENTS FOR SANITARY SEWER PIPES WITH DIAMETERS GREATER THAN 15 INCHES SHALL BE REINFORCED CONCRETE PIPE ASTM C76 WITH CLASS DESIGNATION SPECIFIED IN THE APPROVED CONSTRUCTION DRAWINGS.
5.

ALL IN-LINE WYE AND TEE CONNECTIONS IN CONCRETE SEWERS, 18-INCH DIAMETER AND LARGER, SHALL BE EITHER KOR-N-TEE OR KOR-N-SEAL CONNECTIONS CONFORMING TO THE MANUFACTURER'S RECOMMENDATIONS.
6.

GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
7.

ALL MANHOLE LIDS SHALL BE PROVIDED WITH CONTINUOUS SELF-SEALING GASKETS. THE APPROVED CONSTRUCTION DRAWINGS SHALL SHOW WHERE BOLT-DOWN LIDS ARE REQUIRED. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE OR AS APPROVED BY THE CITY ENGINEER AND CONFORM TO THE CITY OF DUBLIN SANITARY MANHOLE STANDARD DRAWING. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO.
8.

ALL PVC SEWER PIPES SHALL BE DEFLECTION TESTED NO LESS THAN 60 DAYS AFTER COMPLETION OF BACKFILLING OPERATIONS. ALL OTHER REQUIREMENTS SHALL BE ACCORDING TO ITEM 901.21 OF THE STANDARD SPECIFICATIONS.

9.

TEMPORARY BULKHEADS SHALL BE PLACED IN PIPES AT LOCATIONS SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AND SHALL REMAIN IN PLACE UNTIL THE PERMIT TO INSTALL (PTI) HAS BEEN ISSUED BY THE OEPA AND THE SEWERS HAVE BEEN APPROVED FOR USE BY THE CITY ENGINEER. THE COST FOR FURNISHING, INSTALLING, MAINTAINING, AND REMOVING BULKHEADS SHALL BE INCLUDED IN THE CONTRACT UNIT BID PRICE FOR THE VARIOUS SANITARY SEWER ITEMS.
10.

ALL SANITARY SEWERS INCLUDING SANITARY SEWER SERVICE LINES SHALL BE SUBJECTED TO AND PASS INFILTRATION OR EXFILTRATION TESTS ACCORDING TO ITEM 901 OF THE STANDARD SPECIFICATIONS AND MUST BE APPROVED FOR USE BY THE CITY ENGINEER BEFORE ANY SERVICE CONNECTIONS ARE TAPPED INTO SEWERS.
11.

FOR SANITARY SEWER INFILTRATION, LEAKAGE THROUGH JOINTS SHALL NOT EXCEED 100 GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER 24 HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT. ALL SANITARY SEWERS SHALL BE TESTED.
12.

AT THE DETERMINATION OF THE CITY ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO PERFORM A TV INSPECTION OF THE SANITARY SEWER SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE CITY. THIS WORK SHALL BE COMPLETED BY THE CONTRACTOR AT HIS EXPENSE.
13.

VISIBLE LEAKS OR OTHER DEFECTS OBSERVED OR DISCOVERED DURING TV INSPECTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
14.

ROOF DRAINS, FOUNDATION DRAINS, FIELD TILE OR OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE STRICTLY PROHIBITED ACCORDING TO SECTION 51.23 OF THE DUBLIN CODE OF ORDINANCES.
15.

ALL WATER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY AND 18 INCHES VERTICALLY, FROM SANITARY SEWERS AND STORM SEWERS, TO THE GREATEST EXTENT PRACTICABLE. WHERE SANITARY SEWERS CROSS WATER MAINS OR OTHER SEWERS OR OTHER UTILITIES, TRENCH BACKFILL SHALL BE PLACED BETWEEN THE PIPES CROSSING AND SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS. IN THE EVENT THAT A WATER LINE MUST CROSS WITHIN 18 INCHES OF A SANITARY SEWER, THE SANITARY SEWER SHALL BE CONCRETE ENCASED OR CONSIST OF DUCTILE IRON PIPE MATERIAL.
16.

SERVICE RISERS SHALL BE INSTALLED WHERE THE DEPTH FROM WYES TO PROPOSED GROUND ELEVATION EXCEEDS 10 FEET. TOPS OF RISERS SHALL BE NO LESS THAN 9 FEET BELOW PROPOSED GROUND ELEVATION IF BASEMENT SERVICE IS INTENDED.
17.

WHERE SERVICE RISERS ARE NOT INSTALLED, A MINIMUM 5-FOOT LENGTH OF SANITARY SEWER SERVICE PIPE OF THE SAME SIZE AS THE WYE OPENING SHALL BE INSTALLED.
18.

THE CONTRACTOR SHALL FURNISH AND PLACE, AS DIRECTED, APPROVED WYE POLES MADE OF 2 INCHES X 2 INCHES LUMBER AT ALL WYE LOCATIONS, ENDS OF EXTENDED SERVICES, OR AT THE END OF EACH RISER WHERE RISERS ARE REQUIRED. WYE POLES SHALL BE VISIBLE BEFORE ACCEPTANCE BY THE CITY. THE COST OF THESE POLES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS.
19.

EXISTING SANITARY SEWER FLOWS SHALL BE MAINTAINED AT ALL TIMES. COSTS FOR PUMPING AND BYPASSING SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE BID FOR THE RELATED ITEMS.
20.

THE CONTRACTOR SHALL FURNISH ALL MATERIAL, EQUIPMENT, AND LABOR TO MAKE CONNECTIONS TO EXISTING MANHOLES. THE SEWER PIPE TO MANHOLE CONNECTIONS FOR ALL SANITARY SEWERS SHALL BE FLEXIBLE AND WATERTIGHT. ALL HOLES SHALL BE NEATLY CORED. THE SEWER PIPE BARREL AT THE SPRINGLINE SHALL NOT EXTEND MORE THAN 1 INCH BEYOND THE INSIDE FACE OF THE MANHOLE. TO MAINTAIN FLEXIBILITY IN THE CONNECTION, A 1-INCH SPACE SHALL BE LEFT BETWEEN THE END OF THE PIPE INSIDE THE MANHOLE AND THE CONCRETE CHANNEL; THIS SPACE SHALL BE FILLED WITH A WATERPROOF FLEXIBLE JOINT FILLER. ANY METAL THAT IS USED SHALL BE TYPE 300 SERIES STAINLESS STEEL. THE CONNECTION MAY BE ANY OF THE FOLLOWING TYPES:  
A. RUBBER SLEEVE WITH STAINLESS STEEL BANDING.  
1) KOR-N-SEAL AS MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.  
2) LOCK JOINT FLEXIBLE MANHOLE SLEEVE AS MANUFACTURED BY INTERPACE CORPORATION.  
3) OR EQUAL AS APPROVED BY THE CITY ENGINEER.  
B. RUBBER GASKET COMPRESSION.  
1) PRESS WEDGE II AS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION.  
2) DURA SEAL III AS MANUFACTURED BY DURA TECH, INC.  
3) LINK-SEAL AS MANUFACTURED BY THUNDERLINE CORPORATION.  
4) OR EQUAL AS APPROVED BY THE CITY ENGINEER.  
THE COST FOR THIS WORK ALONG WITH A NEW CHANNELIZED BASE FOR THE MANHOLE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RELATED ITEMS OF WORK.

WATER LINE

1.

ALL WATER LINE MATERIALS SHALL BE PROVIDED AND INSTALLED ACCORDING TO CURRENT SPECIFICATIONS OF THE CITY OF COLUMBUS DIVISION OF WATER.
2.


ALL PUBLIC WATER PIPE WITH A DIAMETER 3 INCHES TO 8 INCHES SHALL BE DUCTILE IRON, CLASS 53. PUBLIC WATER PIPE 12 INCHES IN DIAMETER OR LARGER SHALL BE DUCTILE IRON, CLASS 54. PUBLIC WATER PIPE 20 INCHES IN DIAMETER OR LARGER MAY BE PRESTRESSED CONCRETE PIPE. PRIVATE WATER PIPE SHALL MEET THE APPROVAL OF THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO APPROVAL OF THE CONSTRUCTION DRAWINGS.
3.

ONLY FIRE HYDRANTS CONFORMING TO CITY OF COLUMBUS STANDARDS WILL BE APPROVED FOR USE.
4.

PUBLIC WATER LINES SHALL BE DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER. REQUESTS FOR WATER LINE CHLORINATION SHALL BE MADE THROUGH THE CITY OF DUBLIN DIVISION OF ENGINEERING. THE COST FOR CHLORINATION SHALL BE PAID FOR BY THE CONTRACTOR.
5.

ALL WATER LINES SHALL BE DISINFECTED ACCORDING TO ITEM 801.13 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS DIRECTED TO APPLICABLE SECTIONS OF AMERICAN WATER WORKS ASSOCIATION SPECIFICATION C-651, PARTICULARLY FOR FLUSHING (SECTION 5) AND FOR CHLORINATING VALVES AND FIRE HYDRANTS (SECTION 7). PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS. WHEN WATER LINES ARE READY FOR DISINFECTION, THE CITY OF DUBLIN SHALL SUBMIT TWO (2) SETS OF "AS-BUILT" PLANS, AND A LETTER STATING THAT THE WATER LINES HAVE BEEN PRESSURE TESTED AND NEED TO BE DISINFECTED, TO THE CITY OF COLUMBUS, DIVISION OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE DISINFECTION OF ALL WATER LINES CONSTRUCTION PER THIS PLAN. PRESSURE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 801.12 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.
6.

THE CONTRACTOR SHALL PAINT ALL FIRE HYDRANTS ACCORDING TO CITY OF DUBLIN STANDARDS. THE COST OF PAINTING FIRE HYDRANTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FIRE HYDRANTS.



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DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	HORIZ DATUM	VERT DATUM
	648155010	SEH	DSN	SEH	DELAWARE		Value	Value

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
GENERAL NOTES

SHEET

2

OF 21

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WATER LINE (CONTINUED)

7.

NO WATER TAPS OR SERVICE CONNECTIONS (E.G., TO CURB STOPS OR METER PITS) MAY BE ISSUED UNTIL ADJACENT PUBLIC WATER LINES SERVING THE CONSTRUCTION SITE HAVE BEEN DISINFECTED BY THE CITY OF COLUMBUS DIVISION OF WATER AND HAVE BEEN ACCEPTED BY THE CITY ENGINEER. A TAP PERMIT FOR EACH WATER SERVICE MUST BE OBTAINED FROM THE CITY OF DUBLIN AND THE CITY OF COLUMBUS DIVISION OF WATER BEFORE MAKING ANY TAPS INTO PUBLIC WATER LINES.
8.

THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS DIVISION OF WATER AT 645-7788 AND THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 24 HOURS BEFORE TAPPING INTO EXISTING WATER LINES.
9.

ALL WATER MAIN STATIONING SHALL BE BASED ON STREET CENTERLINE STATIONING.
10.

ALL BENDS, JOINT DEFLECTIONS AND FITTINGS SHALL BE BACKED WITH CONCRETE PER CITY OF COLUMBUS STANDARDS.
11.

THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL AFFECTED PROPERTY OWNERS AT LEAST 1 WORKING DAY BUT NOT MORE THAN 3 WORKING DAYS PRIOR TO ANY TEMPORARY INTERRUPTION OF WATER SERVICE. INTERRUPTION OF WATER SERVICE SHALL BE MINIMIZED AND MUST BE APPROVED BY THE CITY ENGINEER.
12.

WATER METERS SHALL BE INSTALLED INSIDE PROPOSED STRUCTURES UNLESS A METER PIT INSTALLATION IS APPROVED BY THE CITY OF COLUMBUS DIVISION OF WATER. METER PITS MUST CONFORM TO STANDARD DRAWINGS L-7103, A&B FOR 5/8" THROUGH 1" METERS OR L-6317, A, B, C&D FOR 1-1/2" OR LARGER METERS.
13.

WATER LINES TO BE INSTALLED IN EMBANKMENT AREAS SHALL BE PLACED AFTER THE EMBANKMENT HAS BEEN PLACED AND COMPACTED ACCORDING TO THE STANDARD SPECIFICATIONS.
14.

CURB STOP BOXES SHALL BE LOCATED AT LEAST 1 FOOT INSIDE THE RIGHT-OF-WAY AND SET AT FINISHED GRADE.
15.

IF THE TOP OF THE OPERATING NUT OF ANY VALVE IS GREATER THAN 36 INCHES BELOW FINISHED GRADE, AN EXTENSION STEM SHALL BE FURNISHED TO BRING THE TOP OF THE OPERATING NUT TO WITHIN 24 INCHES OF FINISHED GRADE ELEVATION.
16.

ALL WATER LINES SHALL BE PLACED AT A MINIMUM DEPTH OF 4 FEET MEASURED FROM TOP OF FINISHED GRADE TO TOP OF WATER LINE. WATER LINES SHALL BE SET DEEPER AT ALL POINTS WHERE NECESSARY TO CLEAR EXISTING OR PROPOSED UTILITY LINES OR OTHER UNDERGROUND RESTRICTIONS BY A MINIMUM OF 18 INCHES.
17.

TWO ¾ INCH TAPS SHALL BE INSTALLED WITHIN 2 FEET OF THE END OF THE LINE ON ALL DEAD-END WATER LINES.

STORM SEWERS

1.

ALL STORM WATER DETENTION AND RETENTION AREAS AND MAJOR FLOOD ROUTING SWALES SHALL BE CONSTRUCTED TO FINISH GRADE AND HYDRO-SEEDED AND HYDRO-MULCHED ACCORDING TO ITEMS 203 AND 659 OF THE STANDARD SPECIFICATIONS.
2.

WHERE PRIVATE STORM SEWERS CONNECT TO PUBLIC STORM SEWERS, THE LAST RUN OF PRIVATE STORM SEWER CONNECTING TO THE PUBLIC STORM SEWER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. INSPECTION IS REQUIRED BY THE CITY OF DUBLIN'S DIVISION OF ENGINEERING.
3.

GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 636, TYPE III OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER.
4.

ALL STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C76, WALL B, CLASS IV FOR PIPE DIAMETERS 12 INCHES TO 15 INCHES, CLASS III FOR 18 INCHES TO 24 INCH PIPES, AND 27 INCHES AND LARGER PIPE SHALL BE CLASS II, UNLESS OTHERWISE SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.
5.

HEADWALLS AND ENDWALLS SHALL BE REQUIRED AT ALL STORM SEWER INLETS OR OUTLETS TO AND FROM STORMWATER MANAGEMENT FACILITIES. NATURAL STONE AND/OR BRICK APPROVED BY THE CITY ENGINEER SHALL BE PROVIDED ON ALL VISIBLE HEADWALLS AND/OR ENDWALLS SURFACES.
6.

STORM INLETS OR CATCH BASINS SHALL BE CHANNELIZED AND HAVE BICYCLE SAFE GRATES. MANHOLE LIDS SHALL INCLUDE CITY OF DUBLIN LOGO AND ALL CURB INLET AND CATCH BASIN GRATES SHALL INCLUDE ENGRAVED LETTERING: "DUMP NO WASTE; DRAINS TO RIVER."
7.

STORM SEWER OUTLETS GREATER THAN 18 INCHES IN DIAMETER ACCESSIBLE FROM STORMWATER MANAGEMENT FACILITIES OR WATERCOURSES SHALL BE PROVIDED WITH SAFETY GRATES, AS APPROVED BY THE CITY ENGINEER.

MAIL DELIVERY

1.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT US MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL ALSO INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST BE FIRST COORDINATED WITH THE US POSTAL SERVICE AND THE HOMEOWNER.
2.

BEFORE RELOCATING ANY MAILBOXES, THE CONTRACTOR SHALL CONTACT THE U.S. POSTAL SERVICE AND RELOCATE MAILBOXES ACCORDING TO THE REQUIREMENTS OF THE POSTAL SERVICE.

USE OF FIRE HYDRANTS

1.

THE CONTRACTOR SHALL MAKE PROPER ARRANGEMENTS WITH THE DUBLIN SERVICE DEPARTMENT AND THE COLUMBUS DIVISION OF WATER FOR THE USE OF FIRE HYDRANTS WHEN USED FOR WORK PERFORMED UNDER THIS CONTRACT AND PROVIDE THE CITY OF DUBLIN A COPY OF THE HYDRANT USAGE PERMIT OBTAINED FROM THE CITY OF COLUMBUS. THE CONTRACTOR SHALL ALSO SEND A COPIES OF PERMITS OBTAINED FROM DUBLIN AND COLUMBUS TO THE WASHINGTON AND/OR PERRY TOWNSHIP FIRE DEPARTMENT. PERMITS SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.
2.

BEFORE THE FINAL ESTIMATE IS PAID, THE CONTRACTOR SHALL SUBMIT A LETTER FROM THE CITY OF COLUMBUS DIVISION OF WATER TO THE CITY ENGINEER STATING THAT THE CONTRACTOR HAS RETURNED THE SIAMESE VALVE TO THE CITY OF COLUMBUS AND HAS PAID ALL COSTS ARISING FROM THE USE OF THE FIRE HYDRANTS.

CITY OF COLUMBUS WATERLINE NOTES

1.

FOR ANY EMERGENCIES INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.
2.

ALL BRASS FITTINGS ASSOCIATED WITH WATER WORK, INCLUDING REPAIRS TO THE EXISTING SYSTEM, SHALL CONFORM TO THE REVISED ALLOWABLE LEAD EXTRACTION LIMIT PER THE UPDATED NSF/ANSI 61 STANDARD. THE DIVISION OF WATER'S APPROVED MATERIALS LIST HAS BEEN UPDATED TO REFLECT THIS REQUIREMENT.
3.

IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON CITY OF COLUMBUS WATER LINE SYSTEMS WITHOUT FIRST SECURING LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTION 1103.02 AND 1103.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO HOLDS A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE, IN PARTICULAR SECTION 4114.119 AND 4114.529.
4.

NO PERSON SHALL BEGIN CONSTRUCTION OR INSTALLATION OF A PUBLIC WATER MAIN UNTIL PLANS HAVE BEEN APPROVED BY THE STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA).
5.

THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.
6.

ALL WATER MAINS SHALL BE CLEANED AND FLUSHED, AND ANY WATER MAIN 12-INCH AND LARGER MUST BE PROPERLY PIGGED, IN ACCORDANCE WITH SECTION 801.13 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
7.

ALL WATER MAINS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH SECTION 801.14 OF THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, WITH THE FOLLOWING EXCEPTION: 150 PSI OF PRESSURE SHALL BE MAINTAINED FOR AT LEAST TWO HOURS IN ANY TESTED SECTION. THE CITY MAY NOT APPROVE ANY TEST LASTING LESS THAN TWO HOURS REGARDLESS OF THE AMOUNT OF LEAKAGE.
8.

ONLY ONE CONNECTION TO AN EXISTING WATER LINE IS PERMITTED BEFORE DISINFECTION OF A NEW WATER LINE HAS BEEN COMPLETED. ALL OTHER CONNECTIONS MUST BE MADE AFTER THE LINE HAS BEEN DISINFECTED.
9.

WHERE INDICATED ON THE PLANS, THE EXISTING WATER MAIN SHALL BE ABANDONED; AND ANY EXISTING WATER SERVICES OFF THIS MAIN SHALL BE TRANSFERRED TO THE NEW WATER MAIN. PRIOR TO ABANDONMENT OF THE EXISTING WATER MAIN, THE PROPOSED WATER MAIN SHALL BE PIGGED (IF REQUIRED), TESTED, CHLORINATED AND PUT IN SERVICE AND THEN THE EXISTING WATER SERVICES SHALL BE TRANSFERRED. THE CONTRACTOR SHALL MAINTAIN WATER SERVICES TO ALL PROPERTIES DURING CONSTRUCTION OF THE NEW WATER MAIN AND SHALL NOTIFY ALL CUSTOMERS AFFECTED BY THE TRANSFER OF SERVICES. TO ENSURE THAT ALL EXISTING SERVICES ARE TRANSFERRED TO THE NEW MAIN, NO WATER MAIN SHALL BE ABANDONED UNTIL THE NEW WATER MAIN HAS BEEN PUT IN SERVICE; ALL AFFECTED WATER SERVICES HAVE BEEN TRANSFERRED; AND THE EXISTING WATER MAIN TO BE ABANDONED HAS BEEN SHUT DOWN FOR 24 HOURS. ALL VISIBLE VALVE BOXES, FIRE HYDRANTS, AND SERVICE BOXES ON THE WATER MAIN TO BE ABANDONED, WHICH WILL NO LONGER BE IN SERVICE, SHALL BE REMOVED. ALL WATER MAINS TO BE ABANDONED SHALL BE MADE WATER TIGHT. THE REQUIRED SURFACE RESTORATION SHALL BE PAID FOR UNDER THE APPROPRIATE BID ITEM(S).
10.

WATER SERVICE BOXES SHALL BE PLACED 1' FROM THE EDGE OF THE PROPOSED OR EXISTING SIDEWALK BETWEEN THE SIDEWALK AND THE CURB, OR 2 FEET INSIDE THE RIGHT-OF-WAY OR EASEMENT LINE WHEN NO SIDEWALK IS PRESENT OR PROPOSED. REFER TO STANDARD DRAWING L-9901 FOR ADDITIONAL INFORMATION.
11.

MAINTAIN EIGHTEEN (18) INCHES VERTICAL AND TEN (10) FEET HORIZONTAL SEPARATION BETWEEN ANY SANITARY OR STORM SEWER PIPING AND ALL PROPOSED WATER MAINS.
12.

WHEN CONTROLLED DENSITY FILL (ITEM 613) IS TO BE USED AS BACKFILL, THE CONTRACTOR SHALL PROVIDE SIZE NO. 57 CRUSHED CARBONATE STONE (CCS) 1 FOOT BELOW TO 1 FOOT ABOVE THE EXISTING WATER LINE.
13.

"SURVEY COORDINATES" SHALL INCLUDE ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO OBTAIN HORIZONTAL AND VERTICAL (NORTHING, EASTING, AND ELEVATION) SURVEY COORDINATES FOR THE WATER MAIN IMPROVEMENTS. THE SURVEY COORDINATES SHALL BE OBTAINED FOR THE COMPLETED WATER MAIN CONSTRUCTION AND SHALL INCLUDE ALL VALVES, TEES, CROSSES, BENDS, DEFLECTIONS, PLUGS, REDUCERS, TAPPING SLEEVES, BLOW OFFS, CHLORINATION TAPS, FIRE HYDRANTS, AIR RELEASES, CURB STOPS, CASING PIPE TERMINI, AND OTHER FITTINGS. ADDITIONAL SURVEY COORDINATES ARE REQUIRED ON THE WATER MAIN EVERY 500' WHERE NO FITTING OR OTHER WATER MAIN STRUCTURE IS BEING INSTALLED WITHIN THAT LENGTH OF THE IMPROVEMENT.

ALL SURVEY COORDINATES SHALL BE REFERENCED TO THE APPLICABLE COUNTY ENGINEER'S MONUMENTS, AND SHALL BE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 83) WITH THE (NSRS2007) ADJUSTMENT, WITH FURTHER REFERENCE MADE TO THE OHIO STATE PLANE SOUTH COORDINATE SYSTEM, SOUTH ZONE, WITH ELEVATIONS BASED ON NAVD 88 DATUM. ALL COORDINATES (NORTHING, EASTING, ELEVATION) SHALL BE REFERENCED TO THE NEAREST HUNDREDTH (N XXXXXX.XX, E XXXXXX.XX, ELEV. XXX.XX). ALL SURVEY COORDINATES SHALL BE ACCURATE TO WITHIN 1.0 FOOT HORIZONTAL AND A TENTH OF A FOOT (0.10) OR LESS VERTICAL.

THE COORDINATES SHALL BE DOCUMENTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE IN DIGITAL SPREADSHEET FORM AND SHALL INCLUDE THE APPLICABLE ITEM, STATION, NORTHING, EASTING, AND ELEVATION. COORDINATES SHALL BE SUBMITTED TO THE MUNICIPALITY ENGINEER OR DESIGNATED REPRESENTATIVE ON A BIWEEKLY BASIS. COORDINATES SHALL ALSO BE REQUIRED TO BE SUBMITTED TO THE DIVISION OF WATER AS PART OF THE REQUEST FOR CHLORINATION.

LUMP SUM PAYMENT IS FULL COMPENSATION FOR ALL WORK INVOLVED IN OBTAINING AND DOCUMENTING THE SURVEY COORDINATES AS DESCRIBED IN THIS SPECIFICATION.



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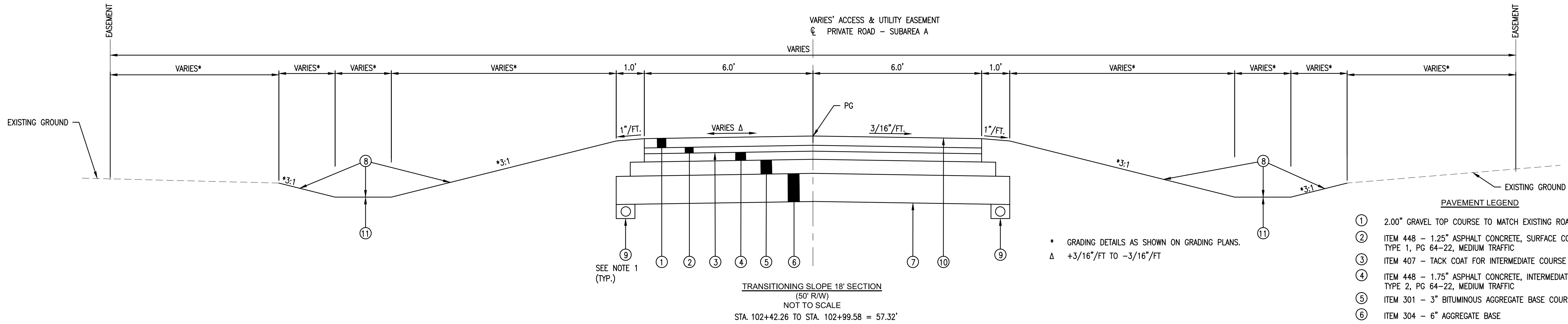
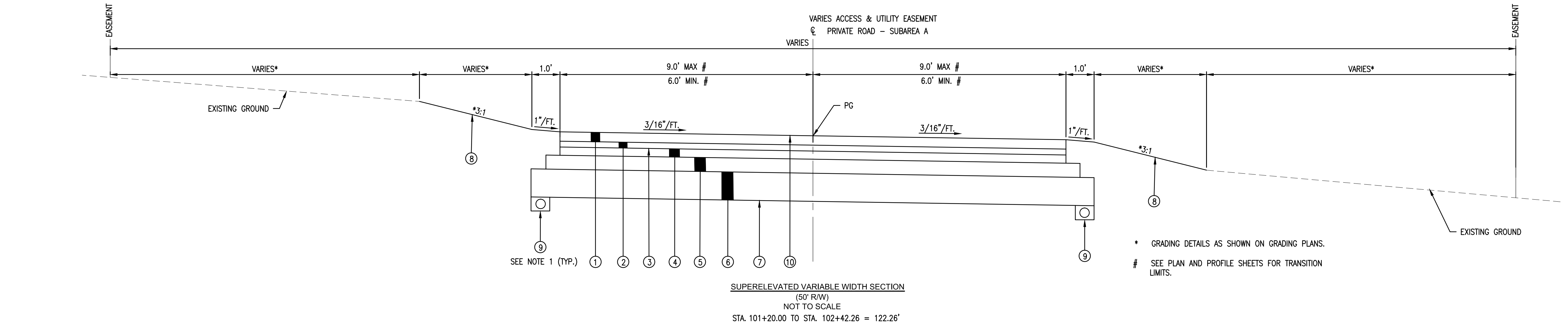
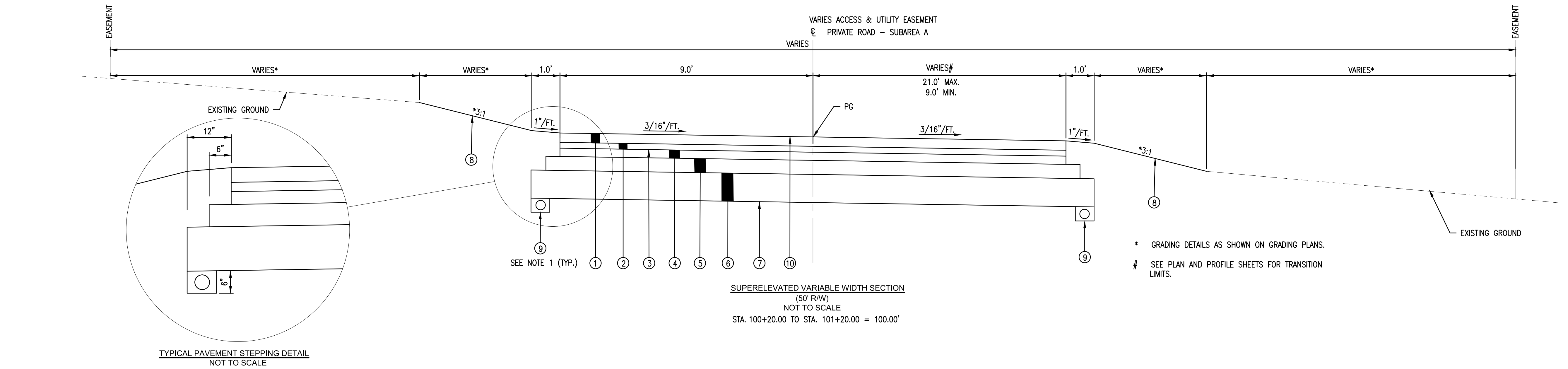
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	648155010	SEH	DSM	SEH	DELAWARE		Value	1"=4'	N	Value	Value

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN

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\* GRADING DETAILS AS SHOWN ON GRADING PLANS.  
Δ +3/16"/FT TO -3/16"/FT

- PAVEMENT LEGEND**
- ① 2.00" GRAVEL TOP COURSE TO MATCH EXISTING ROAD
  - ② ITEM 448 - 1.25" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, PG 64-22, MEDIUM TRAFFIC
  - ③ ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (0.04 GAL/SQ. YD.)
  - ④ ITEM 448 - 1.75" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2, PG 64-22, MEDIUM TRAFFIC
  - ⑤ ITEM 301 - 3" BITUMINOUS AGGREGATE BASE COURSE
  - ⑥ ITEM 304 - 6" AGGREGATE BASE
  - ⑦ ITEM 204 - SUBGRADE COMPACTION
  - ⑧ ITEM 659 - SEEDING AND MULCHING
  - ⑨ ITEM 605 - 4" BASE PIPE UNDERDRAINS
  - ⑩ ITEM 408 - PRIME COAT (0.4 GAL/SQ. YD.)
  - ⑪ ITEM 653 - 12" TOPSOIL, FURNISHED AND PLACED

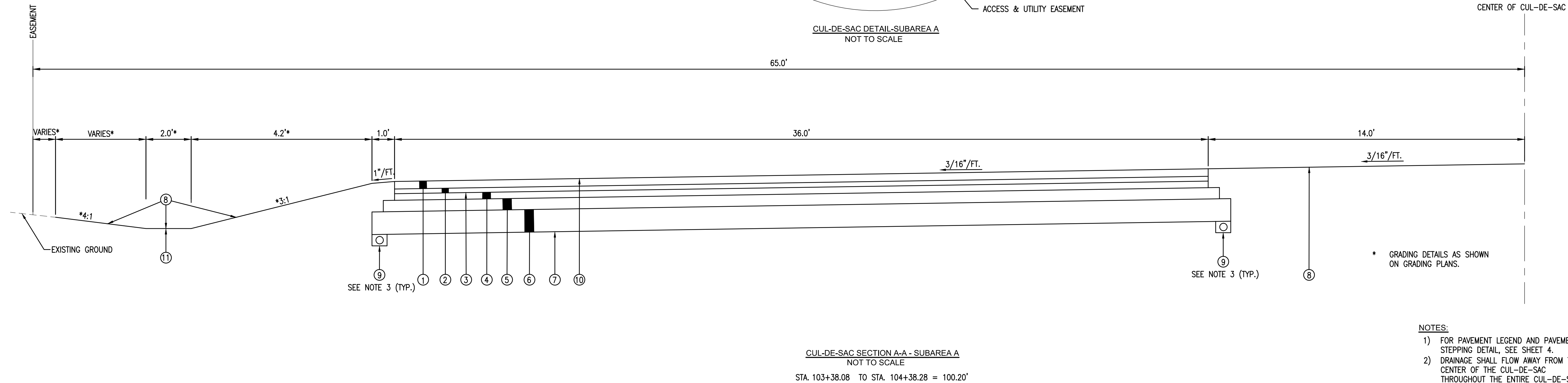
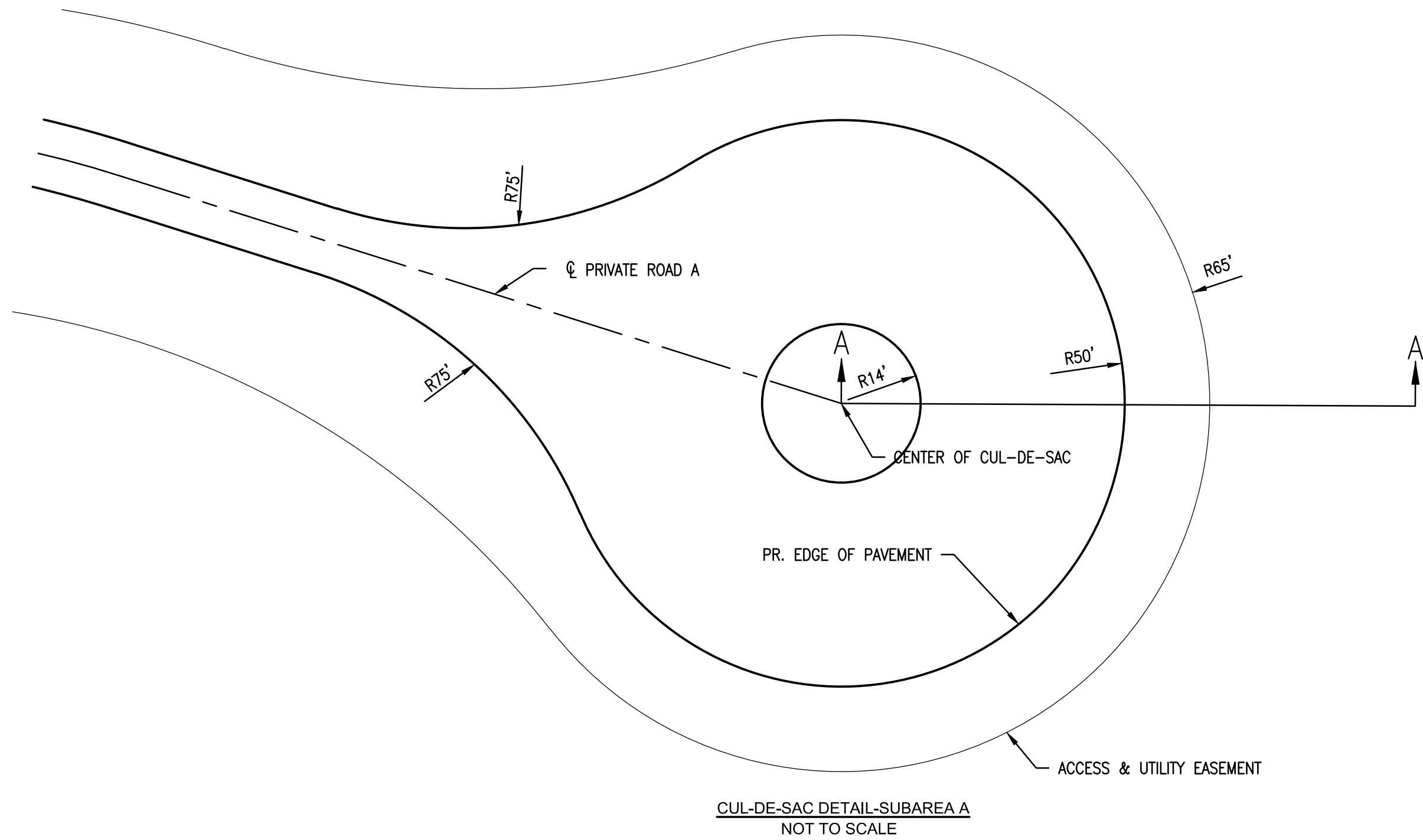
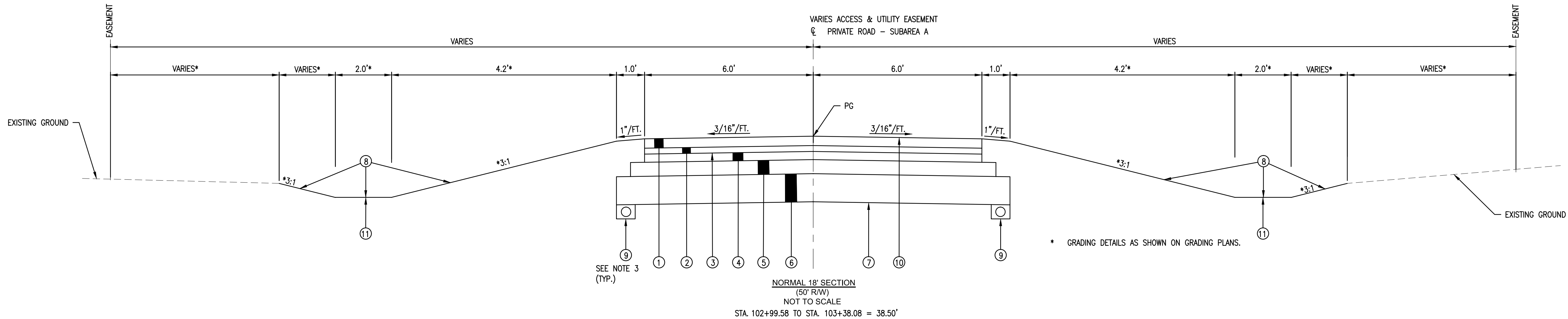
NOTE:  
1) UNDERDRAINS SHALL OUTLET INTO DITCH.

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DATE	PROJ NUMBER	ENG	PROJ LEAD	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	VERT DATUM	Value
	648155010				DELAWARE		H: 1"=40' V: 1"=4'		

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DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
TYPICAL SECTIONS

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NOTES:

- 1) FOR PAVEMENT LEGEND AND PAVEMENT STEPPING DETAIL, SEE SHEET 4.
- 2) DRAINAGE SHALL FLOW AWAY FROM THE CENTER OF THE CUL-DE-SAC THROUGHOUT THE ENTIRE CUL-DE-SAC.
- 3) UNDERDRAINS SHALL OUTLET INTO DITCH.

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DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	H	SCALE	V	VERT DATUM
6/4/15/010	648155010	SEC	DSN	SEC	DELAWARE	Value	Value	1"=40'	1"=4'	Value

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DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
TYPICAL SECTIONS


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SUBAREA A

SCALE: 1"=80'



- LEGEND
- EX. DECIDUOUS TREE
  - EX. CONIFEROUS TREE
  - EX. DEAD TREE
  - EX. DECIDUOUS SHRUB
  - EX. STUMP
  - EX. LIGHTING
  - EX. CABLE RISER
  - EX. TELEPHONE RISER
  - EX. TRANSFORMER PAD
  - EX. BOULDER
  - EX. SPRINKLER HEAD
  - SUBAREA A BOUNDARY



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01/28/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS												

DEER RUN LAND, LLC

DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN

EXISTING CONDITIONS - SUBAREA A

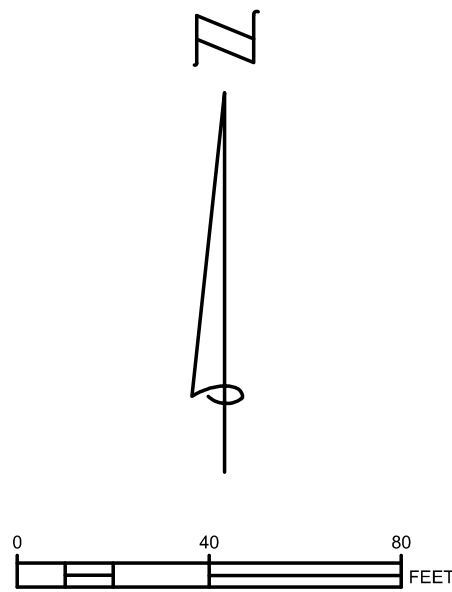
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# SUBAREA A

SCALE: 1"=40'



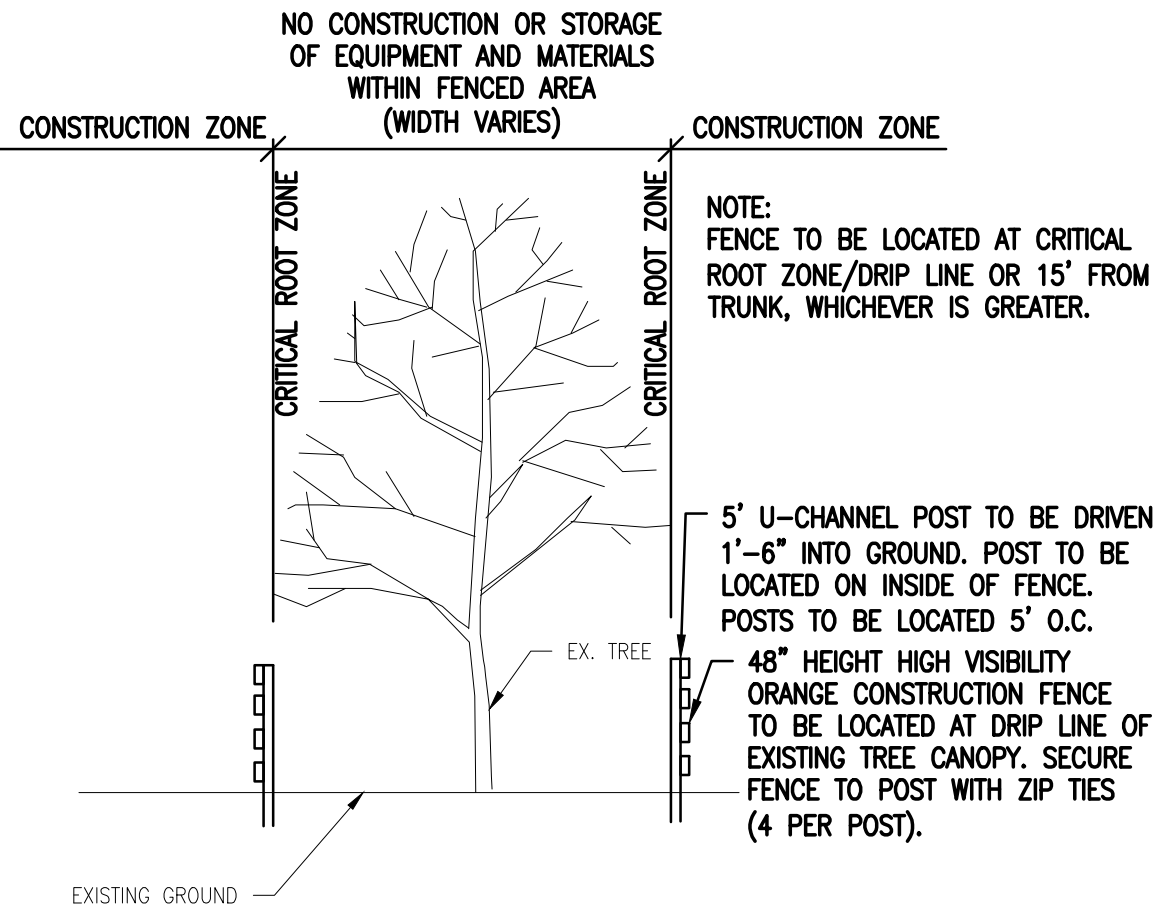
## LEGEND

- EX. DECIDUOUS TREE
- EX. CONIFEROUS TREE
- EX. DEAD TREE
- EX. DECIDUOUS SHRUB
- TREE TO BE REMOVED
- TREE TO BE REMOVED & REPLACED
- TREE PROTECTION FENCE (SEE DETAIL 1 ON THIS SHEET)

## TREE PROTECTION NOTES

- ALL TREES WITHIN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNATED FOR REMOVAL SHALL BE PRESERVED, WHETHER SHOWN OR NOT SHOWN ON THE CONSTRUCTION DRAWINGS.
- TREES TO BE PRESERVED SHALL BE PROTECTED WITH HIGH VISIBILITY FENCING PLACED A MINIMUM OF 15 FEET FROM THE TREE TRUNK. TREES WITH DIAMETER BREST HEIGHT OF 6 INCHES OR GREATER MUST BE PROTECTED WITH FENCING PLACED AT THE CRITICAL ROOT ZONE OR 15 FEET, WHICHEVER IS GREATER.
- TREES NOT INDICATED ON THE APPROVED CONSTRUCTION DRAWINGS FOR REMOVAL MAY NOT BE REMOVED WITHOUT PRIOR APPROVAL OF THE DIVISION OF ENGINEERING.
- CONTACT CITY OF DUBLIN PLANNING DEPARTMENT 614-610-4600 FOR A TREE PROTECTION INSPECTION PRIOR TO BEGINNING ANY SITEWORK.

## DETAIL 1: TREE PROTECTION FENCE



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6/4/18/010		SEC	DSN	SEC	DELAWARE		H: 1"=80' V: 1"=40'	Value

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DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
TREE PRESERVATION & REMOVAL PLAN - SUBAREA A

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TREE SURVEY DATA TABLE - SUBAREA A									
REMOVED	TREE NO.	BOTANICAL NAME	COMMON NAME	SIZE (DBH INCHES)	HEALTH (GOOD, FAIR, POOR, DEAD)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
X	28	Ulmus americana	AMERICAN ELM	16	GOOD	DECIDUOUS	16	-	
X	29	Platanus occidentalis	AMERICAN SYCAMORE	9	GOOD	DECIDUOUS	9	-	
X	30	Ulmus americana	AMERICAN ELM	8	GOOD	DECIDUOUS	8	-	
X	31	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	16	-	
X	32	Fraxinus pennsylvanica	GREEN ASH	19	DEAD	DECIDUOUS	19	-	
X	33	Prunus serotina	BLACK CHERRY	11	GOOD	DECIDUOUS	11	-	
	34	Quercus rubra	RED OAK	14	GOOD	DECIDUOUS	-	-	
	35	Acer saccharum	SUGAR MAPLE	14	GOOD	DECIDUOUS	-	-	
	36	Acer saccharum	SUGAR MAPLE	16	FAIR	DECIDUOUS	-	-	
	37	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	38	Fraxinus pennsylvanica	GREEN ASH	15	POOR	DECIDUOUS	-	-	
X	39	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	9	-	
X	40	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	41	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	42	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	10	-	
X	43	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	8	-	
X	44	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	45	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	10	-	
X	46	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	13	-	
X	47	Celtis occidentalis	HACKBERRY	8	GOOD	DECIDUOUS	8	-	
X	48	Fraxinus pennsylvanica	GREEN ASH	15	DEAD	DECIDUOUS	15	-	
X	48A	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	49	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	50	Acer saccharum	SUGAR MAPLE	10	POOR	DECIDUOUS	10	-	
	51	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	52	Acer saccharum	SUGAR MAPLE	20	GOOD	DECIDUOUS	-	-	
	53	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	54	Acer saccharum	SUGAR MAPLE	12	FAIR	DECIDUOUS	-	-	
	55	Acer saccharum	SUGAR MAPLE	21	GOOD	DECIDUOUS	-	-	
X	56	Acer saccharum	SUGAR MAPLE	10	FAIR	DECIDUOUS	10	-	
X	57	Acer saccharum	SUGAR MAPLE	27	GOOD	DECIDUOUS	27	27	
X	58	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	59	Fraxinus pennsylvanica	GREEN ASH	15	DEAD	DECIDUOUS	15	-	
X	60	Fraxinus pennsylvanica	GREEN ASH	15	DEAD	DECIDUOUS	15	-	
X	60A	Acer saccharum	SUGAR MAPLE	17	GOOD	DECIDUOUS	17	-	
	61	Acer saccharum	SUGAR MAPLE	21	GOOD	DECIDUOUS	-	-	
X	62	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	63	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	15	-	
X	64	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	10	-	
X	65	Quercus rubra	RED OAK	14	GOOD	DECIDUOUS	14	-	
X	66	Prunus serotina	BLACK CHERRY	15	GOOD	DECIDUOUS	15	-	
X	67	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	68	Quercus alba	WHITE OAK	43	GOOD	DECIDUOUS	43	43	
X	69	Acer saccharum	SUGAR MAPLE	14	GOOD	DECIDUOUS	14	-	
	70	Fraxinus pennsylvanica	GREEN ASH	8	DEAD	DECIDUOUS	-	-	
	71	Ulmus rubra	RED ELM	7	GOOD	DECIDUOUS	-	-	
	72	Fraxinus pennsylvanica	GREEN ASH	24	DEAD	DECIDUOUS	-	-	
X	73	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	9	-	
X	74	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	8	-	
	75	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	76	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	77	Acer saccharum	SUGAR MAPLE	21	GOOD	DECIDUOUS	-	-	
X	78	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	10	-	
X	79	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	15	-	
X	80	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	10	-	
X	81	Ulmus americana	AMERICAN ELM	7	FAIR	DECIDUOUS	7	-	
X	82	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
	83	Quercus alba	WHITE OAK	51	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5220
	84	Ulmus americana	AMERICAN ELM	11	GOOD	DECIDUOUS	-	-	
	85	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	86	Ostrya virginiana	HOP HORNBEAM	7	GOOD	DECIDUOUS	-	-	
	87	Fraxinus pennsylvanica	GREEN ASH	22	POOR	DECIDUOUS	-	-	
	88	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	89	Acer saccharum	SUGAR MAPLE	14	GOOD	DECIDUOUS	-	-	
	90	Prunus serotina	BLACK CHERRY	19	GOOD	DECIDUOUS	-	-	
X	91	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	12	-	
X	92	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	9	-	
X	93	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	13	-	
X	94	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	10	-	
	95	Quercus muehlenbergii	CHINQUAPIN OAK	14	GOOD	DECIDUOUS	-	-	
	96	Ulmus americana	AMERICAN ELM	7	POOR	DECIDUOUS	-	-	
	97	Quercus muehlenbergii	CHINQUAPIN OAK	15	GOOD	DECIDUOUS	-	-	
	98	Quercus muehlenbergii	CHINQUAPIN OAK	13	GOOD	DECIDUOUS	-	-	
	99	Quercus muehlenbergii	CHINQUAPIN OAK	14	GOOD	DECIDUOUS	-	-	
	100	Quercus rubra	RED OAK	30	FAIR	DECIDUOUS	-	-	

	101	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	102	Celtis occidentalis	HACKBERRY	13	POOR	DECIDUOUS	-	-	
	103	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	104	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
X	105	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	15	-	
X	106	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	13	-	
X	107	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	12	-	
	108	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	109	Ulmus americana	AMERICAN ELM	11	GOOD	DECIDUOUS	-	-	
	110	Quercus rubra	RED OAK	39	GOOD	DECIDUOUS	-	-	
X	111	Quercus rubra	RED OAK	10	DEAD	DECIDUOUS	10	-	
X	112	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	8	-	
X	113	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	8	-	
	114	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	115	Quercus muehlenbergii	CHINQUAPIN OAK	11	GOOD	DECIDUOUS	-	-	
	116	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	117	Acer saccharum	SUGAR MAPLE	18	GOOD	DECIDUOUS	-	-	
	118	Acer saccharum	SUGAR MAPLE	14	GOOD	DECIDUOUS	-	-	
	119	Ulmus americana	AMERICAN ELM	12	GOOD	DECIDUOUS	-	-	
X	120	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	15	-	
X	121	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	122	Acer saccharum	SUGAR MAPLE	14	FAIR	DECIDUOUS	14	-	
X	123	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	12	-	
X	124	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	9	-	
X	125	Acer saccharum	SUGAR MAPLE	29	GOOD	DECIDUOUS	29	29	DUBLIN LANDMARK 5224
X	126	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	127	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
						SUBTOTALS	717	99	

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REVISIONS

01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS  
01/28/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE	PROJ NUMBER	ENG	PROJ AGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM
	648155010	SEC	DSM	SEC	DELAWARE		H: 1"=80' V: 1"=40'	Value	Value

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
TREE SURVEY DATA TABLE - SUBAREA A

SHEET


8  
OF 21

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TREE SURVEY DATA TABLE - SUBAREA A									
REMOVED	TREE NO.	BOTANICAL NAME	COMMON NAME	SIZE (DBH INCHES)	HEALTH (GOOD, FAIR, POOR, DEAD)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
X	128	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	15	-	
X	129	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	130	Celtis occidentalis	HACKBERRY	12	GOOD	DECIDUOUS	12	-	
X	131	Acer saccharum	SUGAR MAPLE	10	FAIR	DECIDUOUS	10	-	
X	132	Prunus serotina	BLACK CHERRY	19	GOOD	DECIDUOUS	19	19	
X	133	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	13	-	
	134	Quercus rubra	RED OAK	24	GOOD	DECIDUOUS	-	-	
	135	Acer saccharum	SUGAR MAPLE	22	GOOD	DECIDUOUS	-	-	
X	136	Quercus rubra	RED OAK	42	DEAD	DECIDUOUS	42	-	
X	137	Quercus rubra	RED OAK	26	GOOD	DECIDUOUS	26	26	
X	138	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	16	-	
	139	Acer saccharum	SUGAR MAPLE	14	GOOD	DECIDUOUS	-	-	
	140	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	141	Quercus rubra	RED OAK	93	DEAD	DECIDUOUS	-	-	
X	142	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	9	-	
X	143	Quercus rubra	RED OAK	9	FAIR	DECIDUOUS	9	-	
X	144	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	12	-	
X	145	Celtis occidentalis	HACKBERRY	18	GOOD	DECIDUOUS	18	18	
X	146	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	13	-	
X	147	Quercus rubra	RED OAK	25	DEAD	DECIDUOUS	25	-	
X	148	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
	149	Quercus rubra	RED OAK	17	GOOD	DECIDUOUS	-	-	
	150	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	151	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	152	Ulmus americana	AMERICAN ELM	14	DEAD	DECIDUOUS	-	-	
	153	Acer saccharum	SUGAR MAPLE	10	DEAD	DECIDUOUS	-	-	
	154	Acer saccharum	SUGAR MAPLE	12	DEAD	DECIDUOUS	-	-	
	155	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	156	Acer saccharum	SUGAR MAPLE	27	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5222
	157	Quercus rubra	RED OAK	11	FAIR	DECIDUOUS	-	-	
	158	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	159	Fraxinus pennsylvanica	GREEN ASH	7	GOOD	DECIDUOUS	-	-	
	160	Prunus serotina	BLACK CHERRY	11	GOOD	DECIDUOUS	-	-	
	161	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	162	Fraxinus pennsylvanica	GREEN ASH	14	FAIR	DECIDUOUS	-	-	
	163	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
X	164	Fraxinus pennsylvanica	GREEN ASH	13	POOR	DECIDUOUS	13	-	
X	165	Fraxinus pennsylvanica	GREEN ASH	8	FAIR	DECIDUOUS	8	-	
X	166	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	7	-	
X	167	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
	168	Fraxinus pennsylvanica	GREEN ASH	19	POOR	DECIDUOUS	-	-	
	169	Fraxinus pennsylvanica	GREEN ASH	11	FAIR	DECIDUOUS	-	-	
X	170	Juglans nigra	BLACK WALNUT	16	GOOD	DECIDUOUS	16	-	
X	171	Acer saccharum	SUGAR MAPLE	23	GOOD	DECIDUOUS	23	23	
X	172	Celtis occidentalis	HACKBERRY	10	GOOD	DECIDUOUS	10	-	
X	173	Fraxinus pennsylvanica	GREEN ASH	10	FAIR	DECIDUOUS	10	-	
X	174	Juglans nigra	BLACK WALNUT	17	GOOD	DECIDUOUS	17	-	
	175	Ulmus rubra	RED ELM	7	GOOD	DECIDUOUS	-	-	
X	176	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	177	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	178	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	16	-	
	179	Acer saccharum	SUGAR MAPLE	17	GOOD	DECIDUOUS	-	-	
	180	Ulmus americana	AMERICAN ELM	12	GOOD	DECIDUOUS	-	-	
	181	Ulmus americana	AMERICAN ELM	9	GOOD	DECIDUOUS	-	-	
X	182	Acer saccharum	SUGAR MAPLE	19	GOOD	DECIDUOUS	19	19	
	183	Ulmus rubra	RED ELM	13	GOOD	DECIDUOUS	-	-	
	184	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
X	185	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	6	-	
X	186	Fraxinus pennsylvanica	GREEN ASH	11	DEAD	DECIDUOUS	11	-	
	187	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	188	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	189	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	190	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	191	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	192	Prunus serotina	BLACK CHERRY	10	DEAD	DECIDUOUS	-	-	
	193	Ulmus americana	AMERICAN ELM	8	GOOD	DECIDUOUS	-	-	
	194	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	195	Quercus rubra	RED OAK	12	GOOD	DECIDUOUS	-	-	
	196	Prunus serotina	BLACK CHERRY	17	GOOD	DECIDUOUS	-	-	
	197	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	198	Prunus serotina	BLACK CHERRY	11	DEAD	DECIDUOUS	-	-	
	199	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	200	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	

	201	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	202	Quercus alba	WHITE OAK	40	GOOD	DECIDUOUS	-	-	
	203	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	204	Prunus serotina	BLACK CHERRY	11	GOOD	DECIDUOUS	-	-	
	205	Quercus rubra	RED OAK	11	GOOD	DECIDUOUS	-	-	
	206	Quercus rubra	RED OAK	15	GOOD	DECIDUOUS	-	-	
	207	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	208	Acer saccharum	SUGAR MAPLE	7	FAIR	DECIDUOUS	-	-	
	209	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	210	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	211	Prunus serotina	BLACK CHERRY	16	GOOD	DECIDUOUS	-	-	
	212	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	213	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	214	Prunus serotina	BLACK CHERRY	9	GOOD	DECIDUOUS	-	-	
	215	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	216	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	217	Acer saccharum	SUGAR MAPLE	31	GOOD	DECIDUOUS	-	-	
	218	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	-	-	
	219	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	220	Quercus rubra	RED OAK	8	GOOD	DECIDUOUS	-	-	
	221	Quercus rubra	RED OAK	20	GOOD	DECIDUOUS	-	-	
	222	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	223	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	224	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	225	Quercus rubra	RED OAK	31	GOOD	DECIDUOUS	-	-	
	226	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	227	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
						SUBTOTALS	442	105	



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01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS  
01/28/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

DATE

PROJ NUMBER

PROJ NAME

ENG

SEC

64815010

CITY/VILLAGE/TOWNSHIP

COUNTY

DELAWARE

SCALE

H

V

1"=80'

1"=80'

HORIZ DATUM

VERT DATUM

Value

Value

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
TREE SURVEY DATA TABLE - SUBAREA A

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9


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TREE SURVEY DATA TABLE - SUBAREA A									
REMOVED	TREE NO.	BOTANICAL NAME	COMMON NAME	SIZE (DBH INCHES)	HEALTH (GOOD, FAIR, POOR, DEAD)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
	228	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	229	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	230	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	231	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	232	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	233	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	234	Quercus rubra	RED OAK	15	GOOD	DECIDUOUS	-	-	
	235	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	236	Prunus serotina	BLACK CHERRY	7	GOOD	DECIDUOUS	-	-	
	237	Prunus serotina	BLACK CHERRY	7	DEAD	DECIDUOUS	-	-	
	238	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	239	Quercus rubra	RED OAK	20	GOOD	DECIDUOUS	-	-	
	240	Prunus serotina	BLACK CHERRY	11	GOOD	DECIDUOUS	-	-	
	241	Fraxinus pennsylvanica	GREEN ASH	11	DEAD	DECIDUOUS	-	-	
	242	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	243	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	-	-	
	244	Prunus serotina	BLACK CHERRY	11	GOOD	DECIDUOUS	-	-	
	245	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	-	-	
	246	Prunus serotina	BLACK CHERRY	14	GOOD	DECIDUOUS	-	-	
	247	Prunus serotina	BLACK CHERRY	8	GOOD	DECIDUOUS	-	-	
	248	Prunus serotina	BLACK CHERRY	10	DEAD	DECIDUOUS	-	-	
	249	Fagus grandifolia	AMERICAN BEECH	12	GOOD	DECIDUOUS	-	-	
	250	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	251	Quercus rubra	RED OAK	21	GOOD	DECIDUOUS	-	-	
	252	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	253	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	254	Quercus rubra	RED OAK	7	GOOD	DECIDUOUS	-	-	
	255	Quercus rubra	RED OAK	13	GOOD	DECIDUOUS	-	-	
	256	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	257	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	258	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	259	Acer saccharum	SUGAR MAPLE	20	GOOD	DECIDUOUS	-	-	
	260	Quercus alba	WHITE OAK	40	GOOD	DECIDUOUS	-	-	
	261	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	262	Quercus alba	WHITE OAK	32	GOOD	DECIDUOUS	-	-	
	263	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	264	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	265	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	266	Ulmus rubra	RED ELM	6	GOOD	DECIDUOUS	-	-	
	267	Quercus rubra	RED OAK	44	POOR	DECIDUOUS	-	-	DUBLIN LANDMARK 5211
	268	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	269	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	270	Fraxinus pennsylvanica	GREEN ASH	11	DEAD	DECIDUOUS	-	-	
	271	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	272	Prunus serotina	BLACK CHERRY	7	GOOD	DECIDUOUS	-	-	
	273	Acer saccharum	SUGAR MAPLE	33	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5212
	274	Quercus rubra	RED OAK	8	GOOD	DECIDUOUS	-	-	
X	275	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
X	276	Quercus alba	WHITE OAK	33	GOOD	DECIDUOUS	33	33	
X	277	Ulmus americana	AMERICAN ELM	7	GOOD	DECIDUOUS	7	-	
X	278	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	279	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	11	-	
X	280	Acer saccharum	SUGAR MAPLE	21	GOOD	DECIDUOUS	21	21	
X	281	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	16	-	
X	282	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	6	-	
X	283	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	6	-	
X	284	Ulmus americana	AMERICAN ELM	7	DEAD	DECIDUOUS	7	-	
	285	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	286	Fraxinus pennsylvanica	GREEN ASH	13	FAIR	DECIDUOUS	-	-	
	287	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	288	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	289	Acer saccharum	SUGAR MAPLE	27	GOOD	DECIDUOUS	-	-	
	290	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	291	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	292	Fraxinus pennsylvanica	GREEN ASH	28	FAIR	DECIDUOUS	-	-	
	293	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	294	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	295	Acer saccharum	SUGAR MAPLE	17	GOOD	DECIDUOUS	-	-	
	296	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	297	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	298	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	299	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	300					DECIDUOUS	-	-	NOT USED

	301	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	302	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	303	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	-	-	
X	304	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	6	-	
X	305	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	7	-	
	306	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	307	Fraxinus pennsylvanica	GREEN ASH	11	DEAD	DECIDUOUS	-	-	
	308	Fraxinus pennsylvanica	GREEN ASH	13	DEAD	DECIDUOUS	-	-	
	309	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	310	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	311	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	312	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	313	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	314	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	315	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	316	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	317	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	318	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	319	Acer saccharum	SUGAR MAPLE	15	GOOD	DECIDUOUS	-	-	
	320	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	321	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	322	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	323	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	324	Quercus alba	WHITE OAK	36	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5215
	325	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	326	Quercus alba	WHITE OAK	42	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5217
	327	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
						SUBTOTALS	138	54	



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DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
TREE SURVEY DATA TABLE - SUBAREA A

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10  
OF 21

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TREE SURVEY DATA TABLE - SUBAREA A									
REMOVED	TREE NO.	BOTANICAL NAME	COMMON NAME	SIZE (DBH INCHES)	HEALTH ( GOOD, FAIR, POOR, DEAD)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
	328	Quercus alba	WHITE OAK	41	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5218
	329	Fraxinus pennsylvanica	GREEN ASH	22	DEAD	DECIDUOUS	-	-	DUBLIN LANDMARK 5355
	330	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	331	Quercus rubra	RED OAK	16	GOOD	DECIDUOUS	-	-	
	332	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	333	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	-	-	
	334	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	335	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	336	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	337	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	338	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	339	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	340	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	341	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	342	Prunus serotina	BLACK CHERRY	8	GOOD	DECIDUOUS	-	-	
	343	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	344	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	345	Quercus rubra	RED OAK	14	GOOD	DECIDUOUS	-	-	
	346	Quercus alba	WHITE OAK	13	GOOD	DECIDUOUS	-	-	
	347	Prunus serotina	BLACK CHERRY	12	GOOD	DECIDUOUS	-	-	
	348	Fraxinus pennsylvanica	GREEN ASH	8	FAIR	DECIDUOUS	-	-	
	349	Fraxinus pennsylvanica	GREEN ASH	14	DEAD	DECIDUOUS	-	-	
	350	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	351	Quercus rubra	RED OAK	13	GOOD	DECIDUOUS	-	-	
	352	Quercus rubra	RED OAK	10	DEAD	DECIDUOUS	-	-	
	353	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	354	Fraxinus pennsylvanica	GREEN ASH	14	DEAD	DECIDUOUS	-	-	
	355	Fraxinus pennsylvanica	GREEN ASH	17	DEAD	DECIDUOUS	-	-	
	356	Fraxinus pennsylvanica	GREEN ASH	11	GOOD	DECIDUOUS	-	-	
	357	Acer saccharum	SUGAR MAPLE	10	FAIR	DECIDUOUS	-	-	
	358	Acer saccharum	SUGAR MAPLE	13	GOOD	DECIDUOUS	-	-	
	359	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	360	Fraxinus pennsylvanica	GREEN ASH	10	FAIR	DECIDUOUS	-	-	
	361	Acer saccharum	SUGAR MAPLE	16	GOOD	DECIDUOUS	-	-	
	362	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	363	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	364	Quercus rubra	RED OAK	10	GOOD	DECIDUOUS	-	-	
	365	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	366	Quercus muehlenbergii	CHINQUAPIN OAK	22	GOOD	DECIDUOUS	-	-	
	367	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	368	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	369	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	370	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	371	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	372	Quercus muehlenbergii	CHINQUAPIN OAK	18	GOOD	DECIDUOUS	-	-	
	373	Fraxinus pennsylvanica	GREEN ASH	8	FAIR	DECIDUOUS	-	-	
	374	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	375	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	376	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	377	Fraxinus pennsylvanica	GREEN ASH	14	DEAD	DECIDUOUS	-	-	
	378	Fraxinus pennsylvanica	GREEN ASH	13	FAIR	DECIDUOUS	-	-	
	379	Carya ovata	SHAGBARK HICKORY	10	GOOD	DECIDUOUS	-	-	
	380	Carya ovata	SHAGBARK HICKORY	7	GOOD	DECIDUOUS	-	-	
	381	Fraxinus pennsylvanica	GREEN ASH	19	FAIR	DECIDUOUS	-	-	
	382	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	383	Fraxinus pennsylvanica	GREEN ASH	17	FAIR	DECIDUOUS	-	-	
	384	Ulmus americana	AMERICAN ELM	6	GOOD	DECIDUOUS	-	-	
	476	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	477	Prunus serotina	BLACK CHERRY	9	GOOD	DECIDUOUS	-	-	
	478	Quercus rubra	RED OAK	15	GOOD	DECIDUOUS	-	-	
	479	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	480	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	481	Fraxinus pennsylvanica	GREEN ASH	16	POOR	DECIDUOUS	-	-	
	482	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	483	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	484	Quercus rubra	RED OAK	6	GOOD	DECIDUOUS	-	-	
	485	Fraxinus pennsylvanica	GREEN ASH	9	POOR	DECIDUOUS	-	-	
	486	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	487	Fraxinus pennsylvanica	GREEN ASH	13	FAIR	DECIDUOUS	-	-	
	488	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	489	Fraxinus pennsylvanica	GREEN ASH	12	DEAD	DECIDUOUS	-	-	
	490	Fraxinus pennsylvanica	GREEN ASH	12	FAIR	DECIDUOUS	-	-	
	491	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	492	Fraxinus pennsylvanica	GREEN ASH	11	FAIR	DECIDUOUS	-	-	

	493	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	494	Fraxinus pennsylvanica	GREEN ASH	10	FAIR	DECIDUOUS	-	-	
	495					DECIDUOUS	-	-	NOT USED
	496	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	497					DECIDUOUS	-	-	NOT USED
	498	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	499	Ulmus americana	AMERICAN ELM	7	GOOD	DECIDUOUS	-	-	
	500	Fraxinus pennsylvanica	GREEN ASH	12	FAIR	DECIDUOUS	-	-	
	501	Ulmus americana	AMERICAN ELM	12	GOOD	DECIDUOUS	-	-	
	502	Ulmus americana	AMERICAN ELM	8	GOOD	DECIDUOUS	-	-	
	503	Quercus muehlenbergii	CHINQUAPIN OAK	12	GOOD	DECIDUOUS	-	-	
	504	Celtis occidentalis	HACKBERRY	17	FAIR	DECIDUOUS	-	-	
	505	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	506	Fraxinus pennsylvanica	GREEN ASH	17	FAIR	DECIDUOUS	-	-	
	507	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	508	Quercus muehlenbergii	CHINQUAPIN OAK	7	GOOD	DECIDUOUS	-	-	
	509	Quercus rubra	RED OAK	6	GOOD	DECIDUOUS	-	-	
	510	Fraxinus pennsylvanica	GREEN ASH	10	FAIR	DECIDUOUS	-	-	
	511	Acer saccharum	SUGAR MAPLE	25	DEAD	DECIDUOUS	-	-	
	512	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	513	Quercus muehlenbergii	CHINQUAPIN OAK	16	GOOD	DECIDUOUS	-	-	
	514	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	515	Ulmus rubra	RED ELM	14	GOOD	DECIDUOUS	-	-	
	516	Fraxinus pennsylvanica	GREEN ASH	8	FAIR	DECIDUOUS	-	-	
	517	Quercus muehlenbergii	CHINQUAPIN OAK	17	GOOD	DECIDUOUS	-	-	
	518	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
						SUBTOTALS	0	0	



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DEER RUN LAND, LLC

DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN

TREE SURVEY DATA TABLE - SUBAREA A

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11

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TREE SURVEY DATA TABLE - SUBAREA A									
REMOVED	TREE NO.	BOTANICAL NAME	COMMON NAME	SIZE (DBH INCHES)	HEALTH (GOOD, FAIR, POOR, DEAD)	INDICATOR	INCHES REMOVED	INCHES REPLACED	NOTES
	519	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	520	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	521	Juglans nigra	BLACK WALNUT	15	GOOD	DECIDUOUS	-	-	
	522	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	523	Quercus muehlenbergii	CHINQUAPIN OAK	22	GOOD	DECIDUOUS	-	-	
	524	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	525	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	526	Fraxinus pennsylvanica	GREEN ASH	7	DEAD	DECIDUOUS	-	-	
	527	Fraxinus pennsylvanica	GREEN ASH	13	FAIR	DECIDUOUS	-	-	DUBLIN LANDMARK 5235
	528	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	529	Fraxinus pennsylvanica	GREEN ASH	9	DEAD	DECIDUOUS	-	-	
	530	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	531	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	532	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	533	Quercus rubra	RED OAK	15	GOOD	DECIDUOUS	-	-	
	534	Quercus alba	WHITE OAK	7	GOOD	DECIDUOUS	-	-	
	535	Ulmus americana	AMERICAN ELM	8	GOOD	DECIDUOUS	-	-	
	536	Quercus alba	WHITE OAK	29	GOOD	DECIDUOUS	-	-	
	537	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5236
	538	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	539	Quercus alba	WHITE OAK	18	GOOD	DECIDUOUS	-	-	
	540	Fraxinus pennsylvanica	GREEN ASH	8	FAIR	DECIDUOUS	-	-	
	541	Juglans nigra	BLACK WALNUT	13	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5237
	542	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	543	Fraxinus pennsylvanica	GREEN ASH	10	FAIR	DECIDUOUS	-	-	
	544	Fraxinus pennsylvanica	GREEN ASH	13	FAIR	DECIDUOUS	-	-	
	545	Juglans nigra	BLACK WALNUT	10	GOOD	DECIDUOUS	-	-	
	546	Quercus alba	WHITE OAK	10	GOOD	DECIDUOUS	-	-	
	547	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	548	Fraxinus pennsylvanica	GREEN ASH	10	FAIR	DECIDUOUS	-	-	
	549	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	DUBLIN LANDMARK 5238
	550	Quercus alba	WHITE OAK	38	GOOD	DECIDUOUS	-	-	
	551	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	552	Quercus alba	WHITE OAK	7	GOOD	DECIDUOUS	-	-	
	553	Ulmus americana	AMERICAN ELM	8	GOOD	DECIDUOUS	-	-	
	554	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	555	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	556	Juglans nigra	BLACK WALNUT	18	GOOD	DECIDUOUS	-	-	
	557	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	558	Quercus alba	WHITE OAK	32	GOOD	DECIDUOUS	-	-	
	559	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	560	Fraxinus pennsylvanica	GREEN ASH	29	FAIR	DECIDUOUS	-	-	
	561	Acer saccharum	SUGAR MAPLE	10	GOOD	DECIDUOUS	-	-	
	562	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	563	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	564	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	565	Juglans nigra	BLACK WALNUT	17	GOOD	DECIDUOUS	-	-	
	566	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	567	Ulmus americana	AMERICAN ELM	9	GOOD	DECIDUOUS	-	-	
	568	Ulmus americana	AMERICAN ELM	10	GOOD	DECIDUOUS	-	-	
	569	Quercus alba	WHITE OAK	18	GOOD	DECIDUOUS	-	-	
	570	Acer saccharum	SUGAR MAPLE	6	DEAD	DECIDUOUS	-	-	
	571	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	572	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	573	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	574		OAK?	32	DEAD	DECIDUOUS	-	-	
	575	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	576	Acer saccharum	SUGAR MAPLE	7	GOOD	DECIDUOUS	-	-	
	577	Juglans nigra	BLACK WALNUT	11	GOOD	DECIDUOUS	-	-	
	578	Acer saccharum	SUGAR MAPLE	6	GOOD	DECIDUOUS	-	-	
	579	Juglans nigra	BLACK WALNUT	18	GOOD	DECIDUOUS	-	-	
	580	Juglans nigra	BLACK WALNUT	16	GOOD	DECIDUOUS	-	-	
	581	Acer saccharum	SUGAR MAPLE	9	GOOD	DECIDUOUS	-	-	
	582	Acer saccharum	SUGAR MAPLE	8	GOOD	DECIDUOUS	-	-	
	583	Juglans nigra	BLACK WALNUT	10	GOOD	DECIDUOUS	-	-	
	584	Quercus rubra	RED OAK	23	GOOD	DECIDUOUS	-	-	
	585	Fraxinus pennsylvanica	GREEN ASH	8	FAIR	DECIDUOUS	-	-	
	586	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	587	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	588	Acer saccharum	SUGAR MAPLE	11	GOOD	DECIDUOUS	-	-	
	589	Fraxinus pennsylvanica	GREEN ASH	9	FAIR	DECIDUOUS	-	-	
	590	Acer saccharum	SUGAR MAPLE	17	GOOD	DECIDUOUS	-	-	

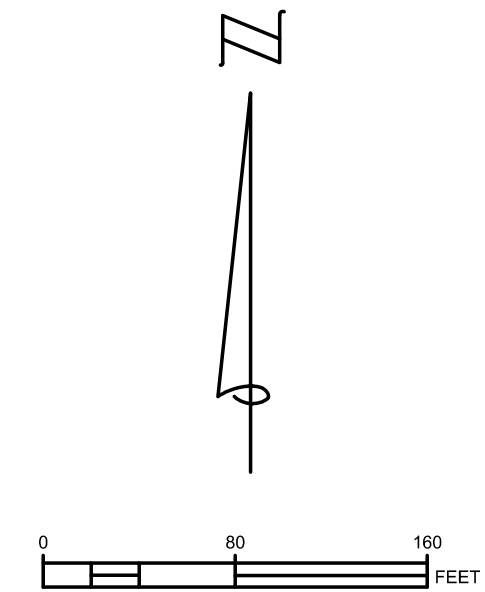
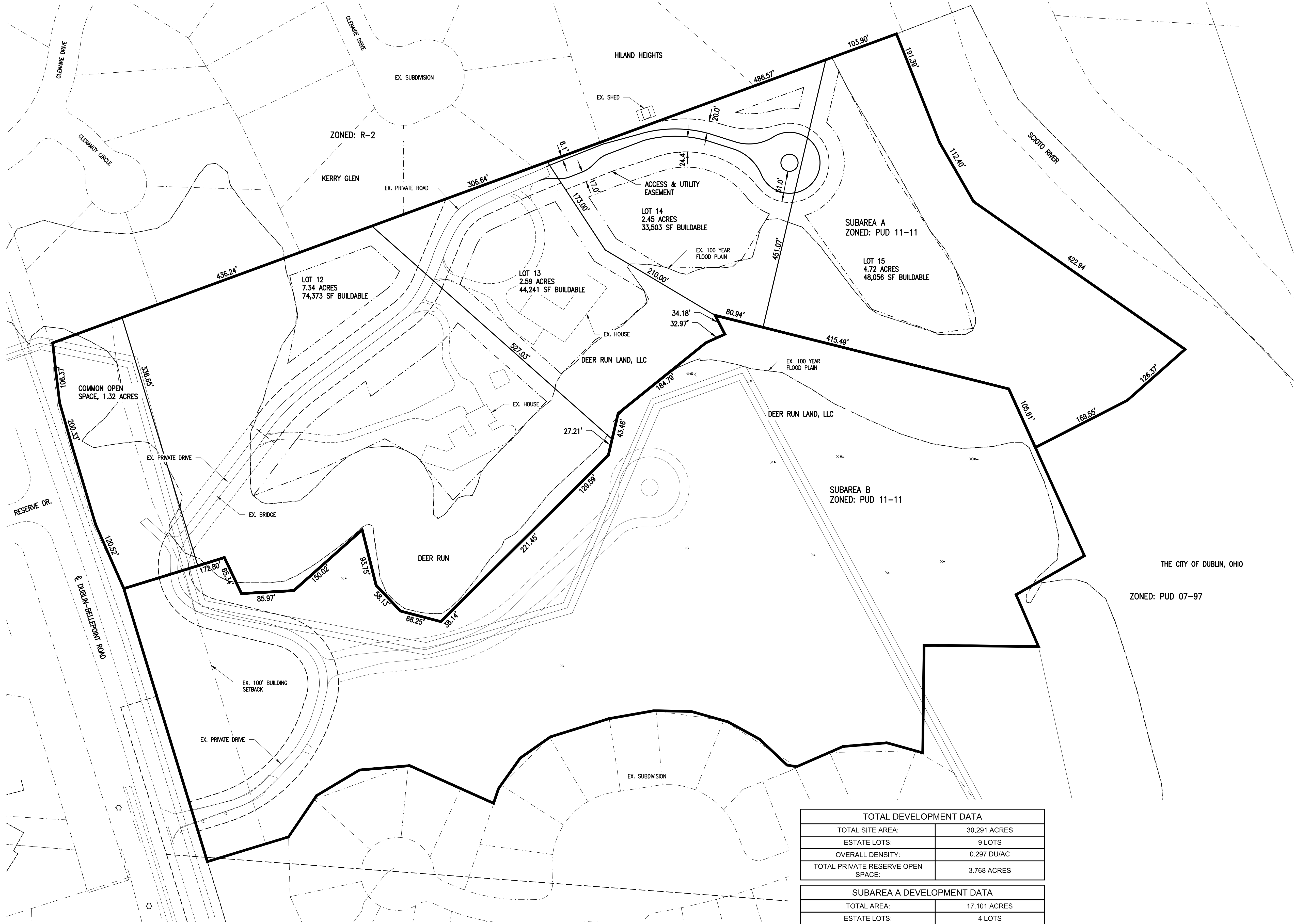
	591	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	592	Juglans nigra	BLACK WALNUT	14	GOOD	DECIDUOUS	-	-	
	593	Fraxinus pennsylvanica	GREEN ASH	6	FAIR	DECIDUOUS	-	-	
	594	Acer saccharum	SUGAR MAPLE	12	GOOD	DECIDUOUS	-	-	
	595	Carya cordiformis	BITTERNUT HICKORY	8	GOOD	DECIDUOUS	-	-	
	596	Fraxinus pennsylvanica	GREEN ASH	11	FAIR	DECIDUOUS	-	-	
	597	Fraxinus pennsylvanica	GREEN ASH	7	FAIR	DECIDUOUS	-	-	
	598	Carya cordiformis	BITTERNUT HICKORY	10	GOOD	DECIDUOUS	-	-	
	599	Carya cordiformis	BITTERNUT HICKORY	13	GOOD	DECIDUOUS	-	-	
	600	Quercus alba	WHITE OAK	32	GOOD	DECIDUOUS	-	-	
	601	Quercus muehlenbergii	CHINQUAPIN OAK	11	GOOD	DECIDUOUS	-	-	
	602	Quercus muehlenbergii	CHINQUAPIN OAK	11	GOOD	DECIDUOUS	-	-	
	603	Quercus rubra	RED OAK	11	GOOD	DECIDUOUS	-	-	
	604			11		DECIDUOUS	-	-	
*ANY TREES IN GOOD OR FAIR CONDITION GREATER THAN 18" DBH REMOVED FROM THE SITE SHALL BE REPLACED INCH-FOR-INCH. TOTAL INCHES TO BE REPLACED EXCLUDES DEAD/POOR CONDITION TREES.				TOTAL INCHES REMOVED				1297	
				TOTAL INCHES TO BE REPLACED*				258	
				NUMBER OF 2.5" CALIPER SIZE TREES REQUIRED FOR REPLACEMENT				103	

SHEET		12 OF 21										
 <p style="text-align: center;"><b>ARCHITECTS ENGINEERS PLANNERS</b></p> <p>580 North Fourth Street, SUITE 630 Columbus, Ohio 43215 P (614) 418-9921   F (614) 418-0614</p> <p style="text-align: right;">OHM-ADVISORS.COM</p>												
<div style="float: left; width: 30%;">REVISIONS</div> <div style="clear: both;"></div>												
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS 01/28/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS												
DATE	PROJ NUMBER	ENG	SEC	DIST	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	H	V	SCALE	HORIZ DATUM	VERT DATUM
	6441150010					DELAWARE						
<h2 style="margin: 0;">DEER RUN LAND, LLC</h2> <h2 style="margin: 0;">DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN</h2> <h2 style="margin: 0;">TREE SURVEY DATA TABLE - SUBAREA A</h2>												

DRAWING PATH: P:\6101-65006481\50101\Deer Run\Drawings\Civil\Plans-Cons\OVERALL PLAN.dwg Jan 28, 2016 - 1:17pm

OVERALL SITE PLAN

SCALE: 1"=80'



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DATE	PROJ NUMBER	ENG	SEC	PROJ NAME	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	H	V	VERT DATUM	Value
	648158010					DELAWARE		1"=80'				

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
OVERALL SITE PLAN

TOTAL DEVELOPMENT DATA	
TOTAL SITE AREA:	30.291 ACRES
ESTATE LOTS:	9 LOTS
OVERALL DENSITY:	0.297 DU/AC
TOTAL PRIVATE RESERVE OPEN SPACE:	3.768 ACRES

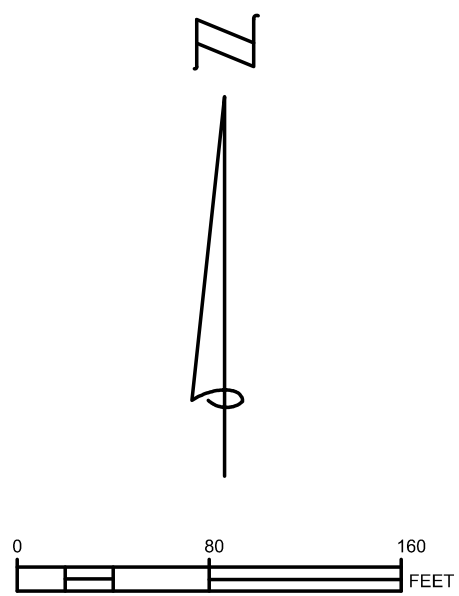
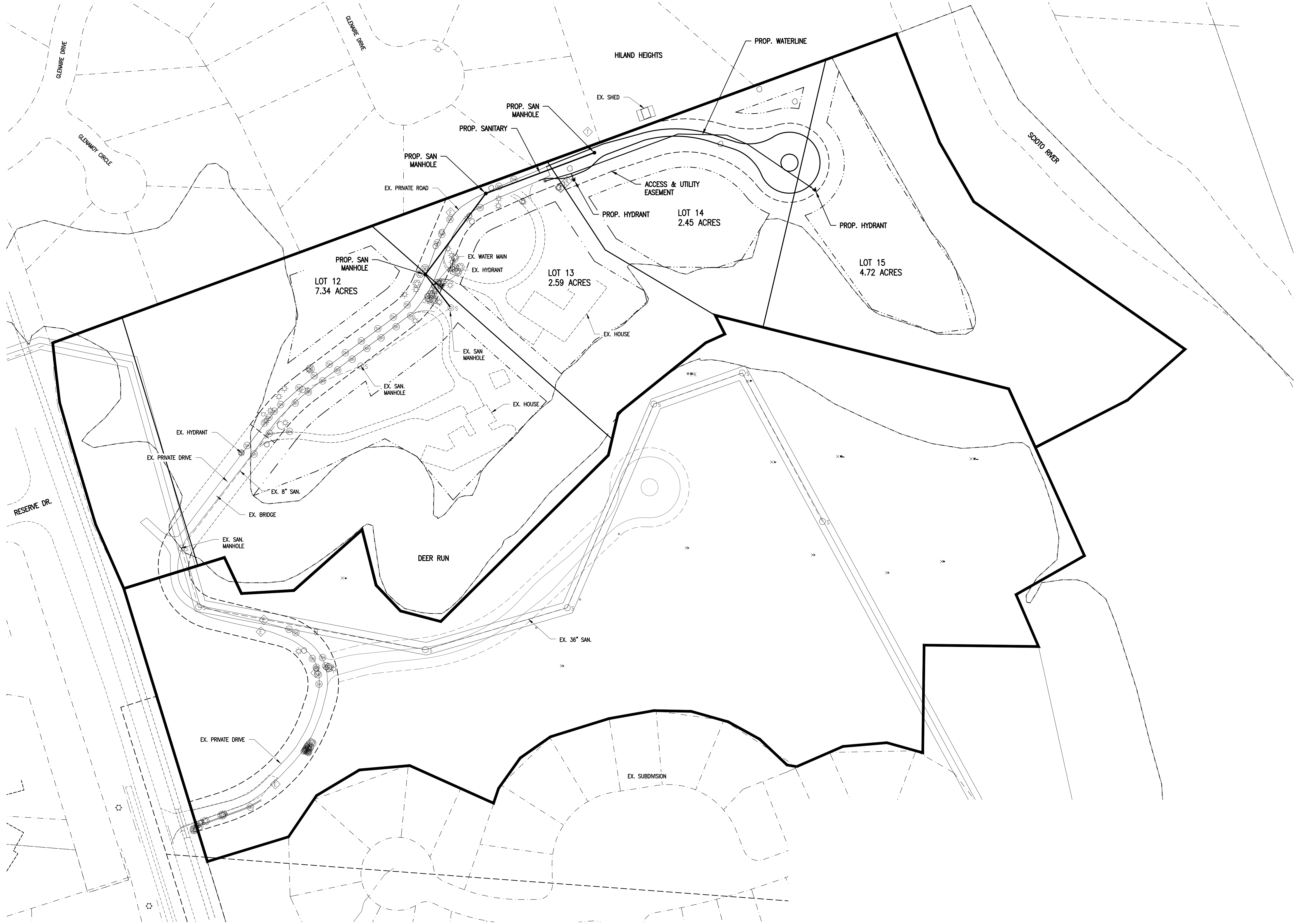
SUBAREA A DEVELOPMENT DATA	
TOTAL AREA:	17.101 ACRES
ESTATE LOTS:	4 LOTS
SUBAREA DENSITY:	0.234 DU/AC
TOTAL PRIVATE RESERVE A:	1.318 ACRES
PRIVATE RESERVE A OPEN SPACE:	1.233 ACRES

- LEGEND**
- EX. LIGHTING
  - EX. CABLE RISER
  - EX. TELEPHONE RISER
  - EX. TRANSFORMER PAD
  - EX. BOULDER
  - EX. SPRINKLER HEAD
  - SUBAREA BOUNDARY

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OVERALL UTILITY PLAN

SCALE: 1"=80'



- LEGEND**
- EX. LIGHTING
  - EX. CABLE RISER
  - EX. TELEPHONE RISER
  - EX. TRANSFORMER PAD
  - EX. BOULDER
  - EX. SPRINKLER HEAD
  - SUBAREA BOUNDARY

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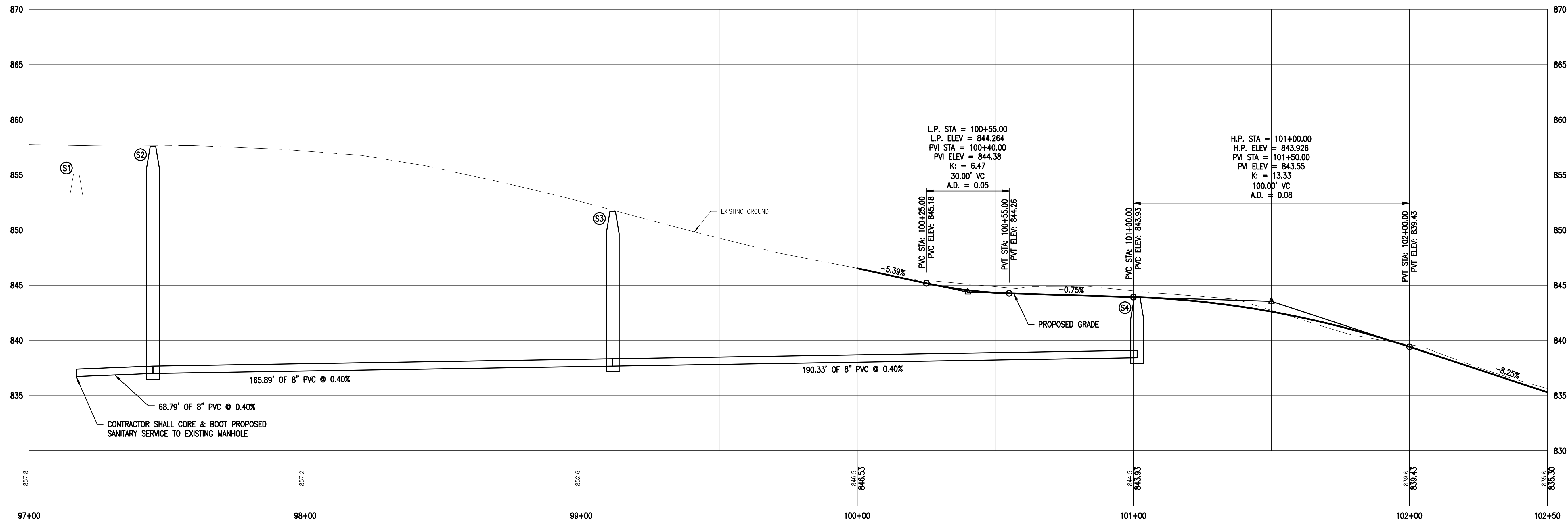
DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	H	V	VERT DATUM
	64815010	SEC	DSN	SEC	DELAWARE		1"=80'			Value
DEER RUN LAND, LLC DEER RUN - SUBAREA B FINAL DEVELOPMENT PLAN OVERALL UTILITY PLAN										

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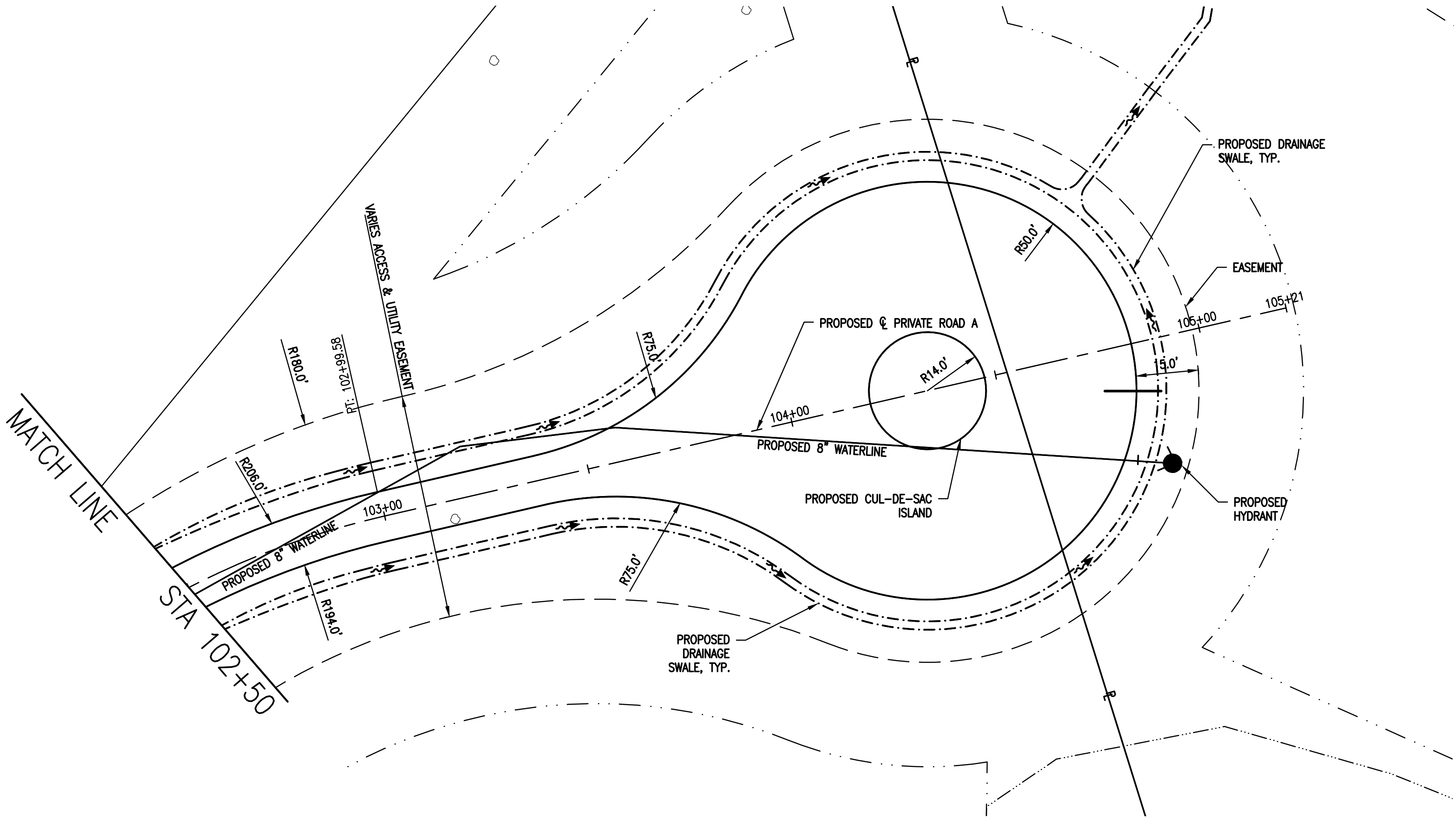
- 1) FOR WATER MAIN DETAILS, SEE SHEETS 17 AND 18
- 2) ALL SANITARY MANHOLES ARE TO BE CONSTRUCTED PER SA-01, SA-02 AND SA-04 OF DUBLIN'S STANDARD CONSTRUCTION DRAWINGS AND TO FOLLOW CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING AA-S150. PAVEMENT BUILD-UP FOR TRENCH SHALL MATCH EXISTING PAVEMENT BUILD-UP.

ALIGNMENT COORDINATES		
PC STATION	NORTHING	EASTING
STA. 98+18.04	781288.6794	1793634.0016
STA. 101+75.11	781447.5427	1793945.2057
PT STATION	NORTHING	EASTING
STA. 98+99.31	781464.2722	1793996.2859
STA. 102+99.58	781448.1951	1794067.6763



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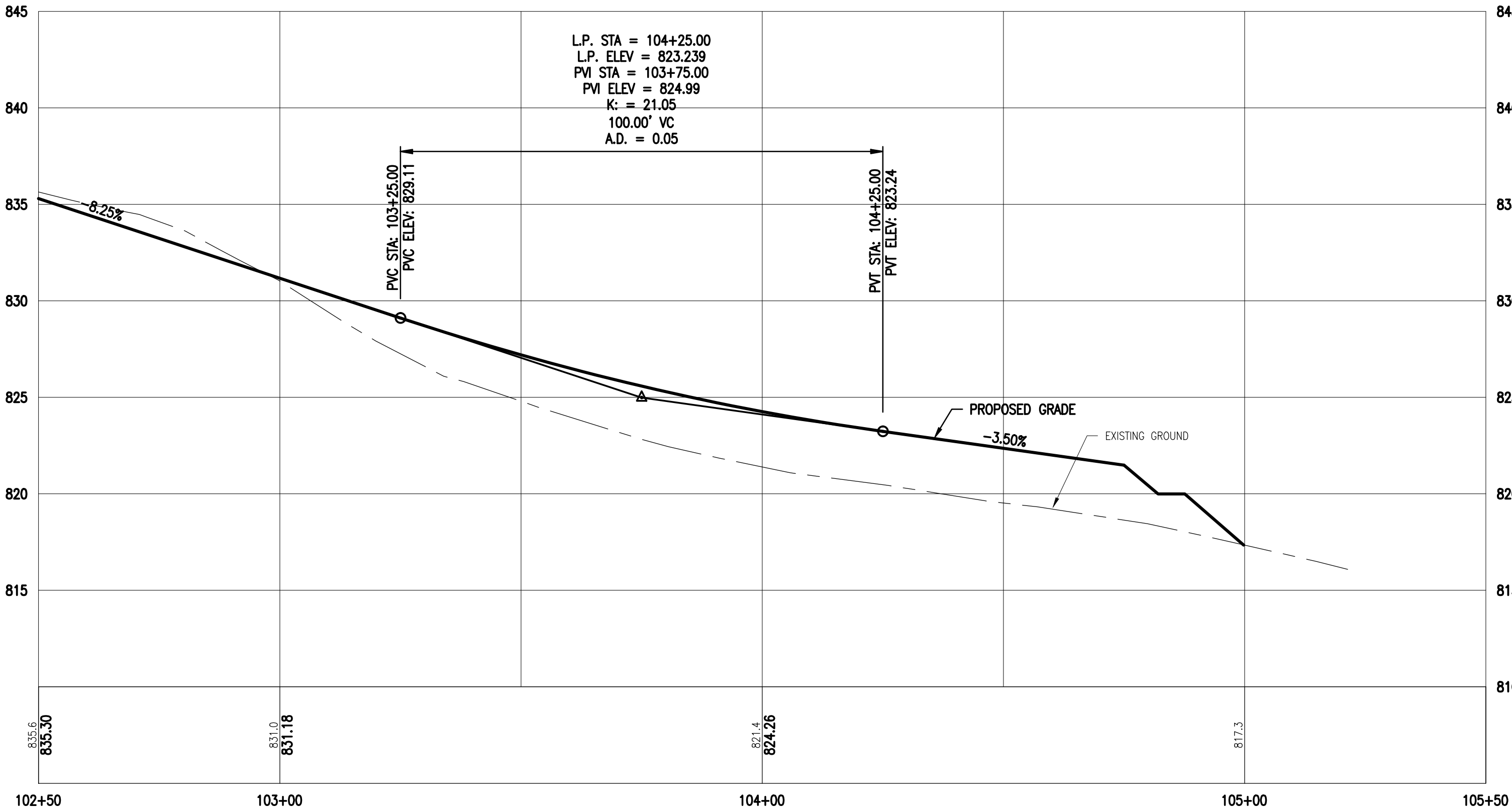


CURVE DATA

P.I. STA. 102+99.09  
 $\Delta = 48^\circ 44' 51''$   
 $R = 155.00'$   
 $T = 70.22'$   
 $L = 131.88'$   
 $E = 15.17'$   
 $C = 127.93'$   
C.B. =  $S 83^\circ 45' 39'' E$

NOTE:

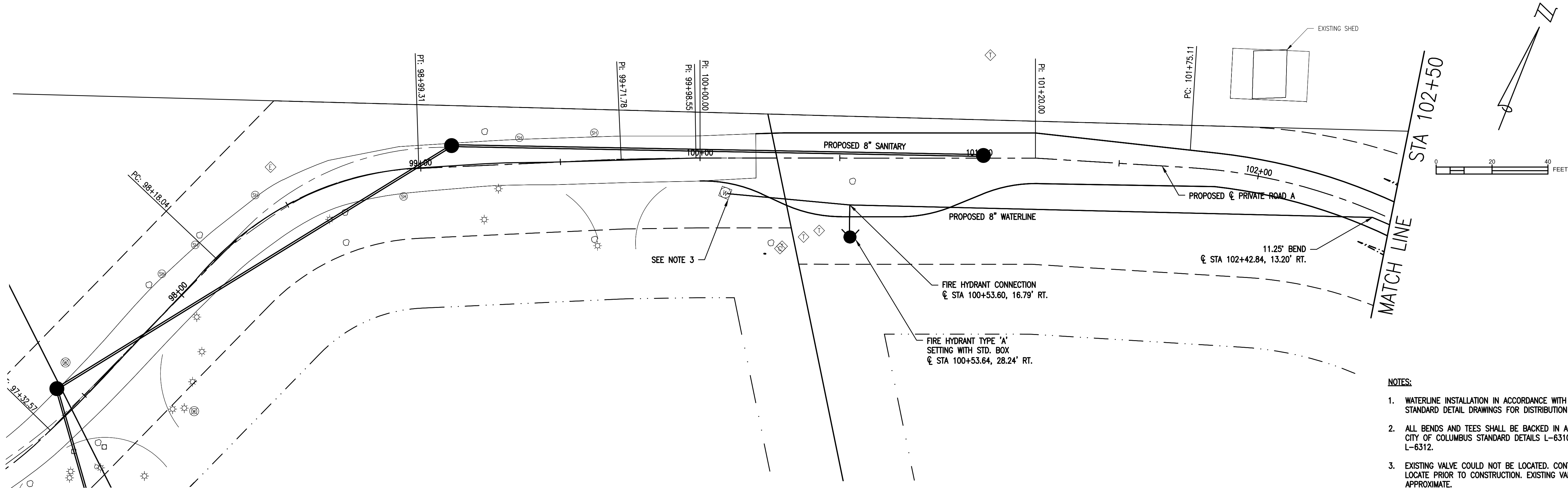
- 1) FOR WATER MAIN DETAILS, SEE SHEETS 17 AND 18.
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REVISIONS  
01/04/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS  
01/28/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS

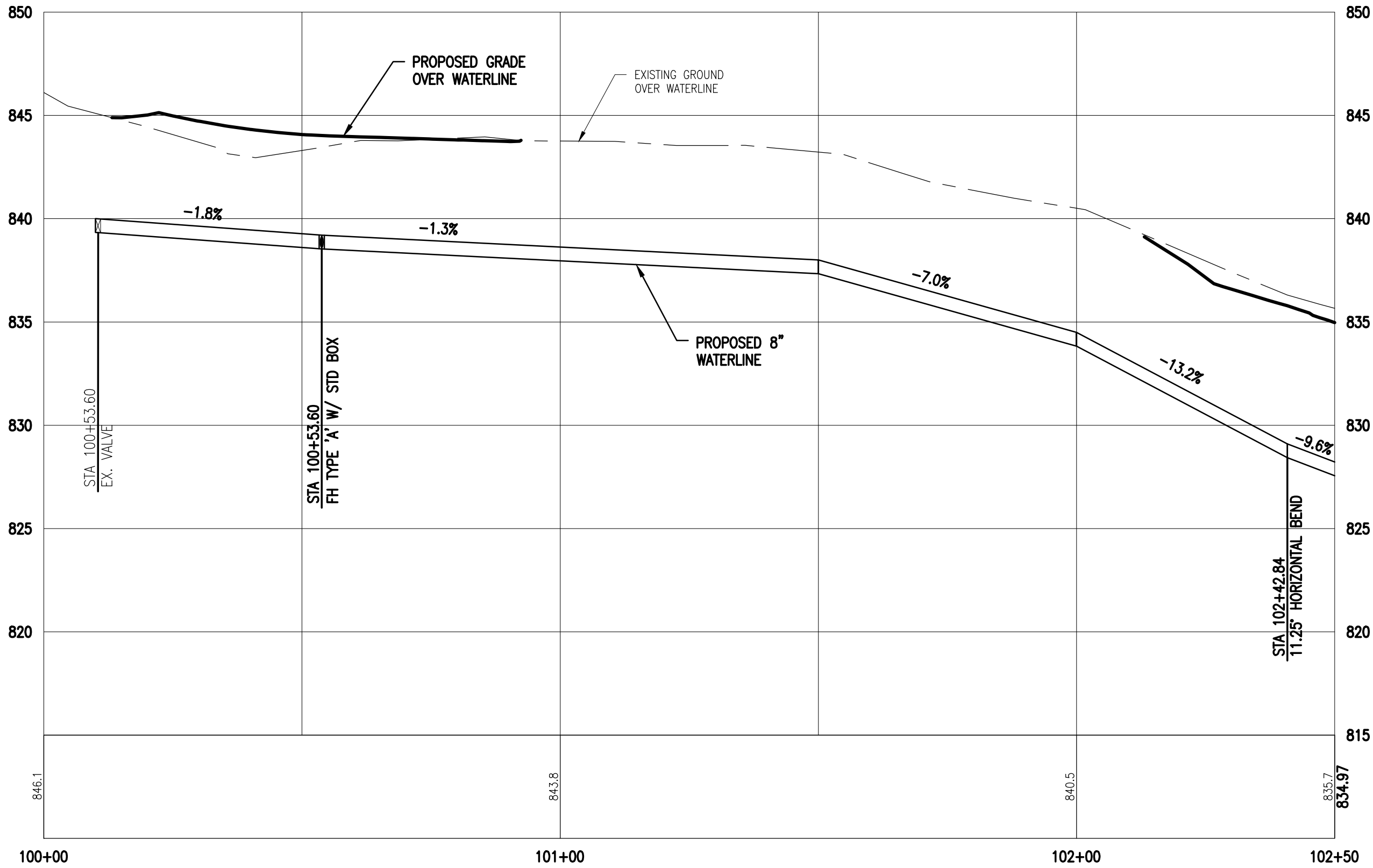
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6/4/15	648150010	SEI	DSM			DELAWARE		1"=20'	Value
DEER RUN LAND, LLC									
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN									
PLAN AND PROFILE - SUBAREA A									
STA. 102+50.00 TO STA. 105+50.00									

DRAWING PATH: P:\6101\_6500\6481\5010\Deer Run\Drawings\Civil\Plans\Const\Subarea A\648155\TR A.dwg Jan 28, 2016 - 1:18pm



NOTES:

1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
2. ALL BENDS AND TEES SHALL BE BACKED IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAILS L-6310, L-6311, AND L-6312.
3. EXISTING VALVE COULD NOT BE LOCATED. CONTRACTOR TO FIELD LOCATE PRIOR TO CONSTRUCTION. EXISTING VALVE LOCATION IS APPROXIMATE.
4. FIRE HYDRANTS SHALL BE A MIN. OF 5' OFF THE EDGE OF PAVEMENT.



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DATE	PROJ NUMBER	ENG	SEI	PROJ LEAD	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	H	SCALE	V	VERT DATUM	Value
	64815010					DELAWARE			1"=20'	1"=5'		

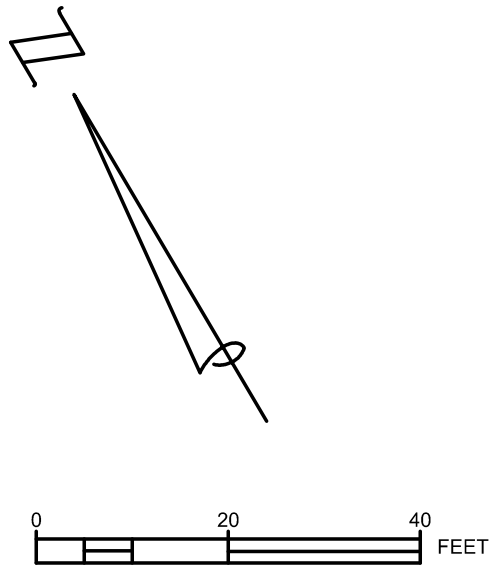
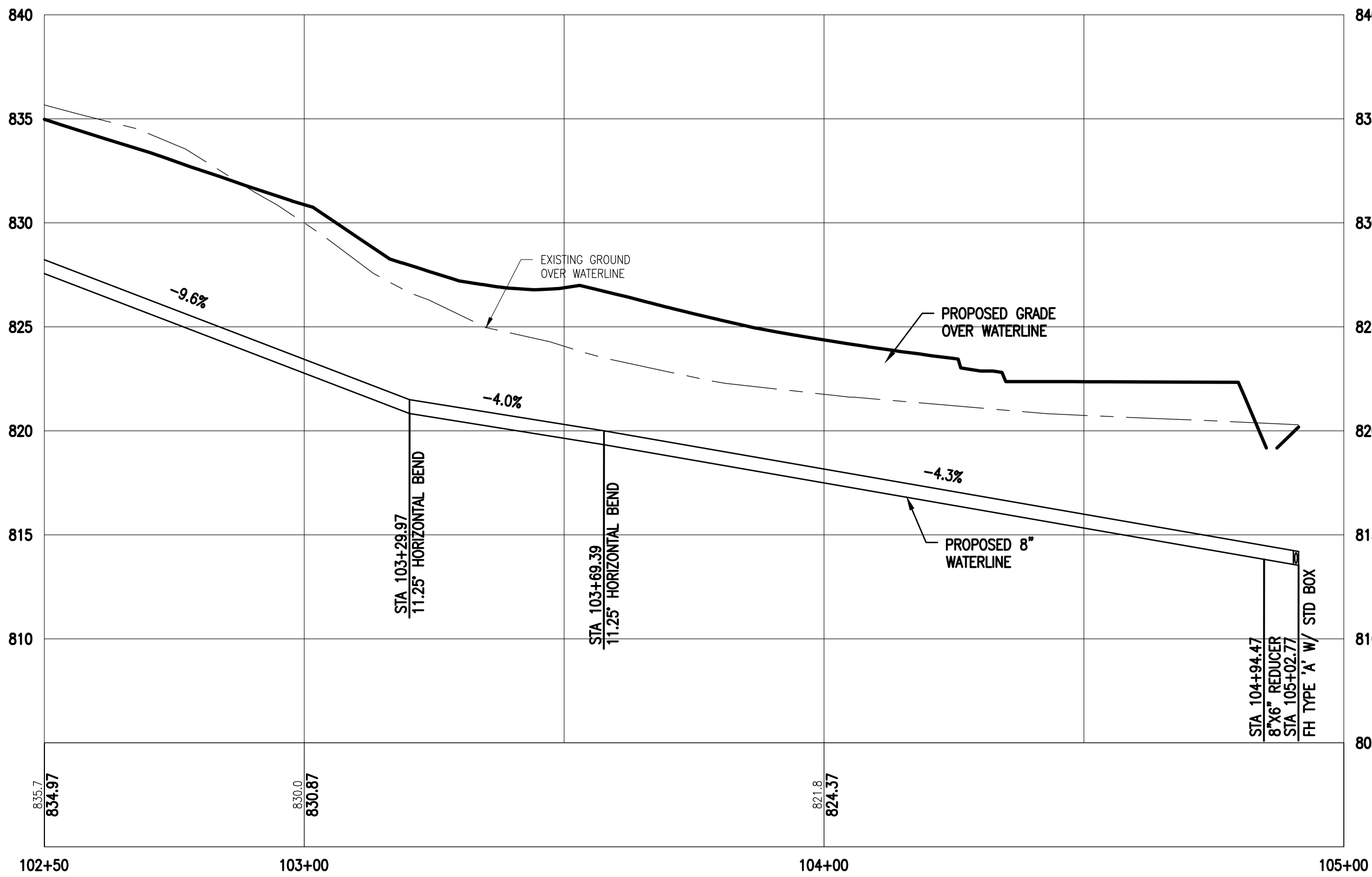
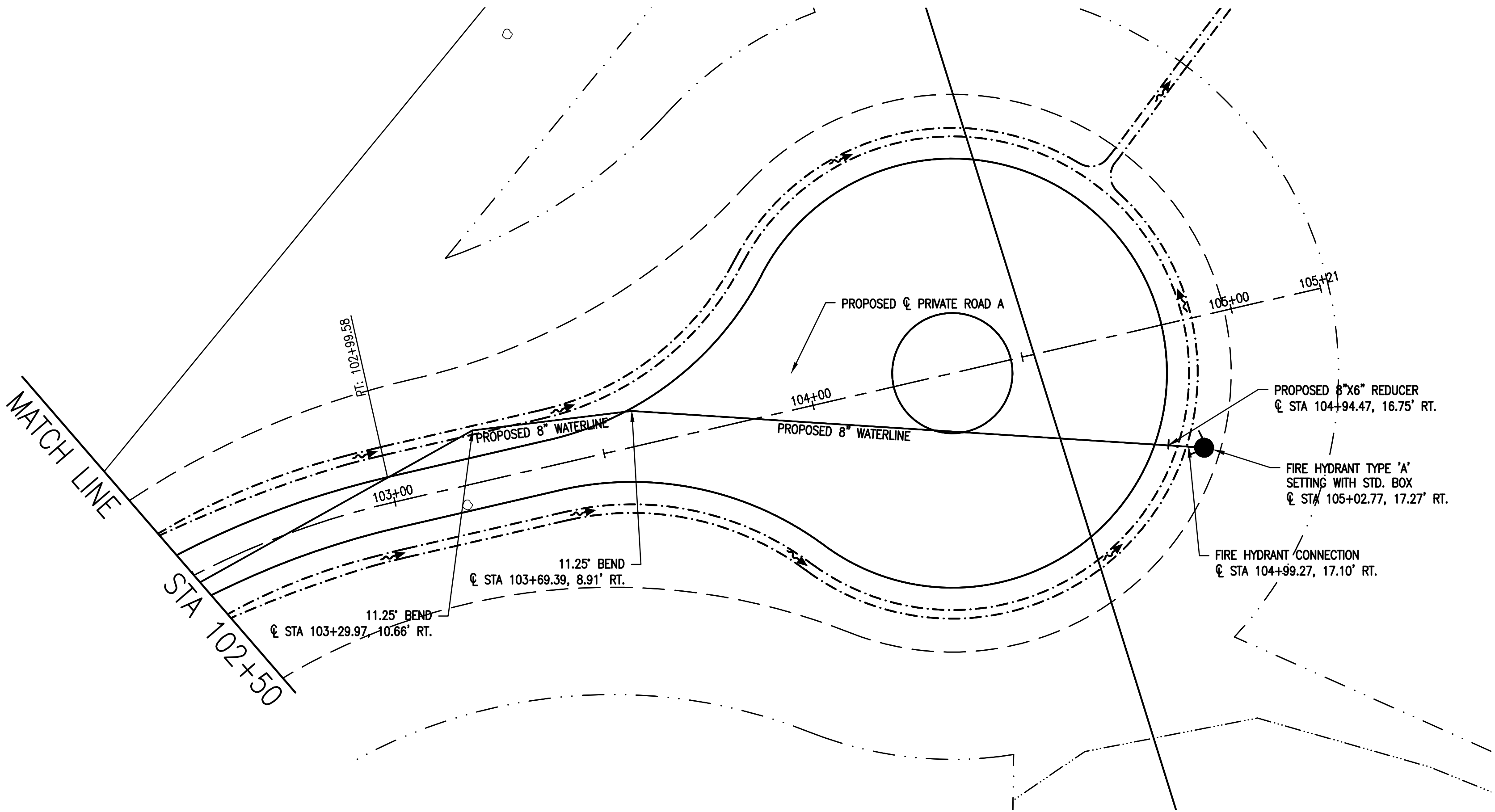
DEER RUN LAND, LLC  
 DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
 WATERLINE PLAN AND PROFILE - SUBAREA A  
 STA. 100+00.00 TO STA. 102+50.00

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NOTES:

1. WATERLINE INSTALLATION IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAIL DRAWINGS FOR DISTRIBUTION SYSTEMS.
2. ALL BENDS AND TEES SHALL BE BACKED IN ACCORDANCE WITH CITY OF COLUMBUS STANDARD DETAILS L-6310, L-6311, AND L-6312.
3. FIRE HYDRANTS SHALL BE A MIN. OF 5' OFF THE EDGE OF PAVEMENT.



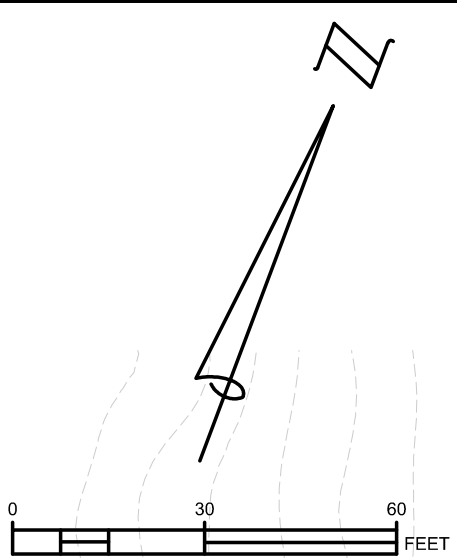
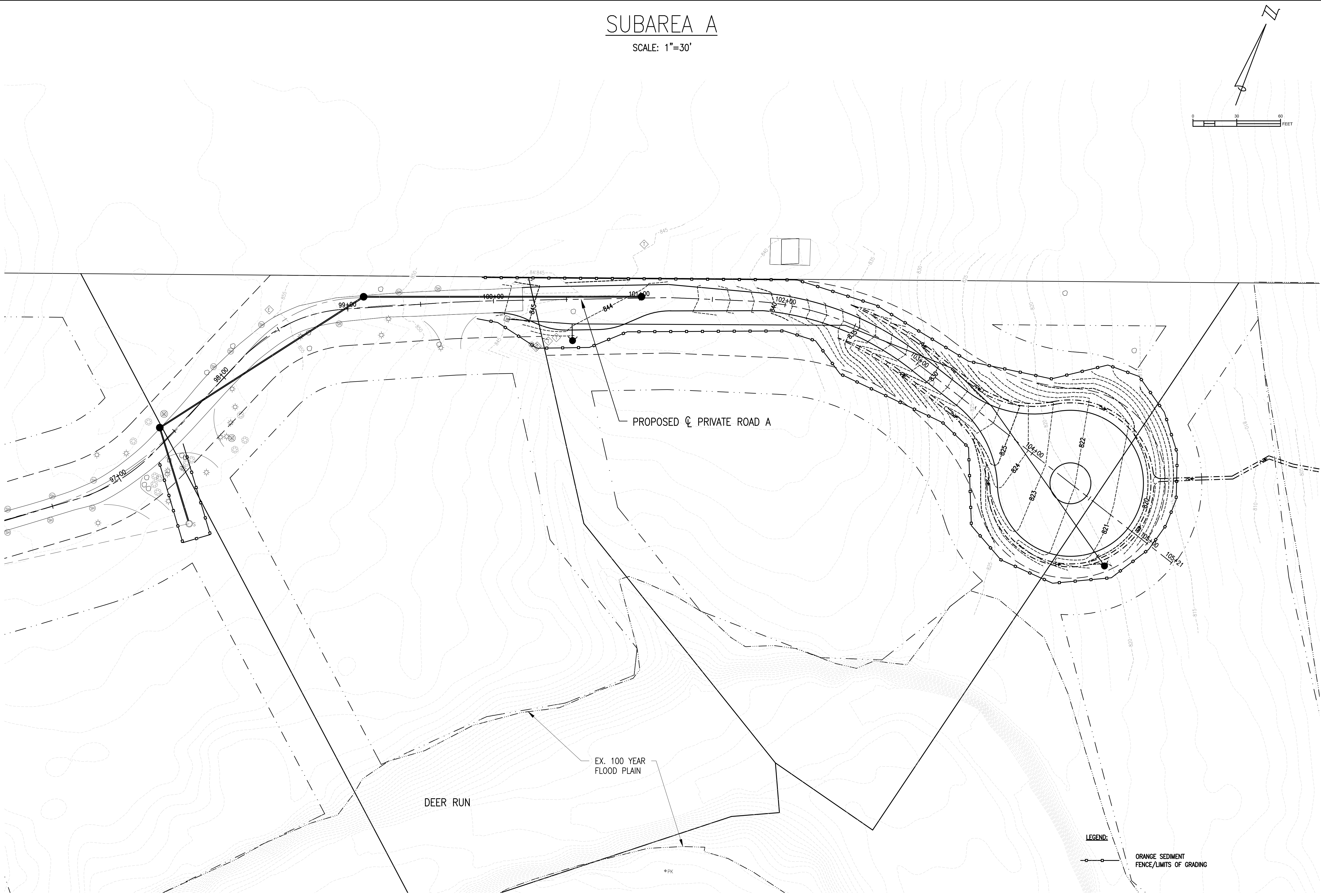
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01/28/2016 - REVISIONS PER CITY OF DUBLIN COMMENTS


DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	H	V	VERT DATUM
6/4/15/010	648155010	SEH	DSM	SEH	DELAWARE		1"=3'	1"=30'		Value

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
WATERLINE PLAN AND PROFILE - SUBAREA A  
STA. 102+50.00 TO STA. 105+00.00

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648155010	SEC	DSM	DEL	DELAWARE	Value	Value	Value	Value

DEER RUN LAND, LLC

DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN

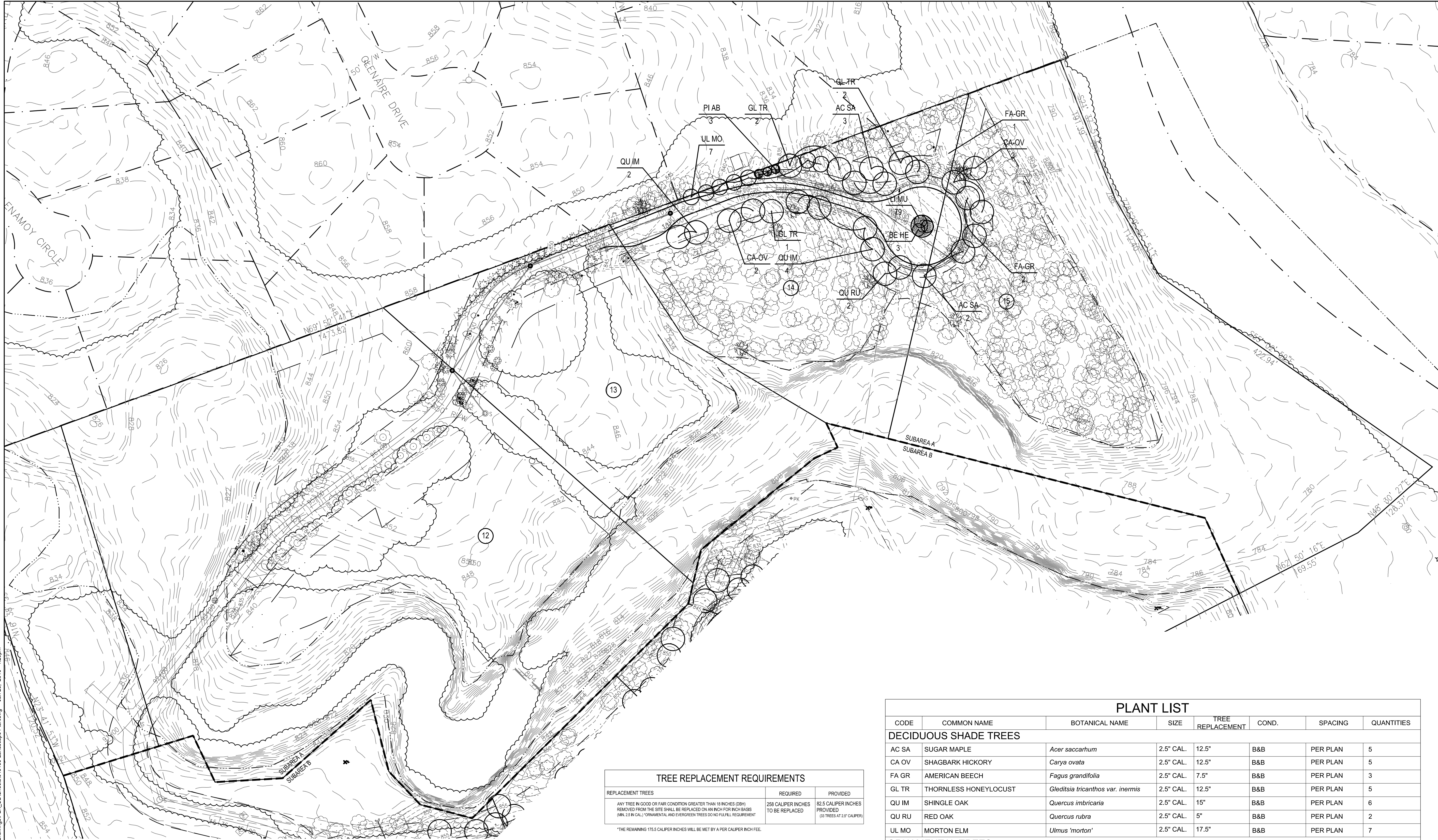
GRADING PLAN - SUBAREA A

19

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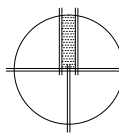
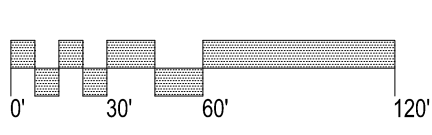
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TREE REPLACEMENT REQUIREMENTS		
REPLACEMENT TREES	REQUIRED	PROVIDED
ANY TREE IN GOOD OR FAIR CONDITION GREATER THAN 18 INCHES (DBH) REMOVED FROM THE SITE SHALL BE REPLACED ON AN INCH-FOR-INCH BASIS (MIN. 2.5 IN CAL.) *ORNAMENTAL AND EVERGREEN TREES DO NO FULFILL REQUIREMENT	258 CALIPER INCHES TO BE REPLACED	82.5 CALIPER INCHES PROVIDED (33 TREES AT 2.5" CALIPER)

\*THE REMAINING 175.5 CALIPER INCHES WILL BE MET BY A PER CALIPER INCH FEE.

PLANT LIST							
CODE	COMMON NAME	BOTANICAL NAME	SIZE	TREE REPLACEMENT	COND.	SPACING	QUANTITIES
DECIDUOUS SHADE TREES							
AC SA	SUGAR MAPLE	<i>Acer saccharum</i>	2.5" CAL.	12.5"	B&B	PER PLAN	5
CA OV	SHAGBARK HICKORY	<i>Carya ovata</i>	2.5" CAL.	12.5"	B&B	PER PLAN	5
FA GR	AMERICAN BEECH	<i>Fagus grandifolia</i>	2.5" CAL.	7.5"	B&B	PER PLAN	3
GL TR	THORNLESS HONEYLOCUST	<i>Gleditsia tricanthos var. inermis</i>	2.5" CAL.	12.5"	B&B	PER PLAN	5
QU IM	SHINGLE OAK	<i>Quercus imbricaria</i>	2.5" CAL.	15"	B&B	PER PLAN	6
QU RU	RED OAK	<i>Quercus rubra</i>	2.5" CAL.	5"	B&B	PER PLAN	2
UL MO	MORTON ELM	<i>Ulmus 'morton'</i>	2.5" CAL.	17.5"	B&B	PER PLAN	7
ORNAMENTAL TREES							
BE HE	HERITAGE RIVER BIRCH	<i>Betula nigra 'Heritage'</i>	8' HGT.	-	B&B	PER PLAN	3
EVERGREEN TREES							
PI AB	NORWAY SPRUCE	<i>Picea abies</i>	6' HGT.	-	B&B	PER PLAN	3
GROUND COVER							
LI MU	BIG BLUE LILY TURF	<i>Liriope muscari 'Big Blue'</i>	#1	-	CONT.	PER PLAN	79
TOTAL TREE REPLACEMENT INCHES				82.5"			





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DATE01/28/2016PROJ NUMBER648115010ARCHSTAFFPROJ LEADERSTAFFCADDSTAFF

DEER RUN LAND, LLC

DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN

LANDSCAPE PLAN - SUBAREA A

20

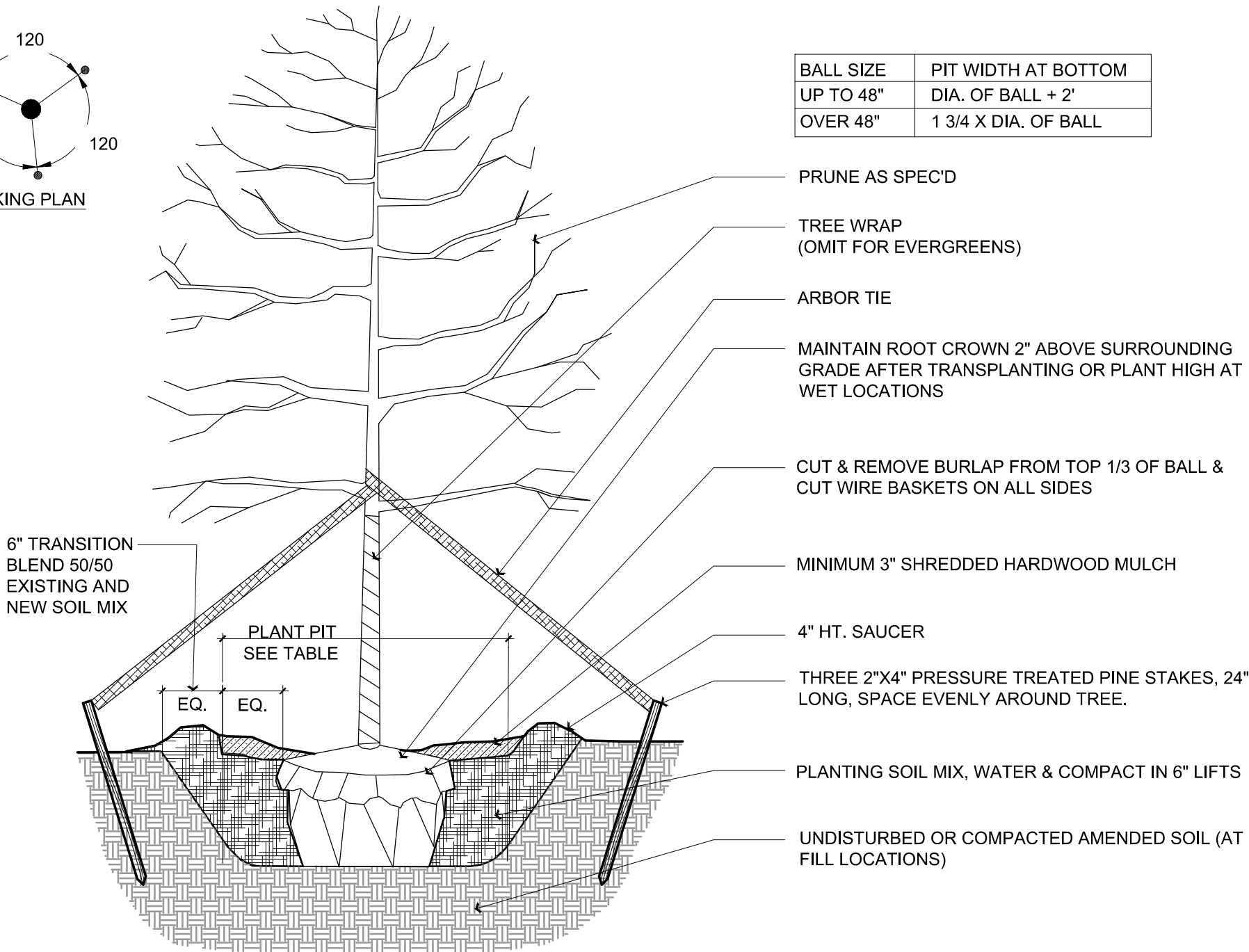
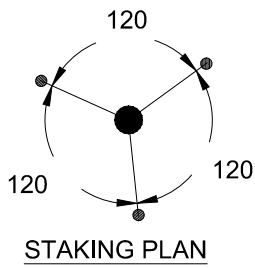
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NOTES:

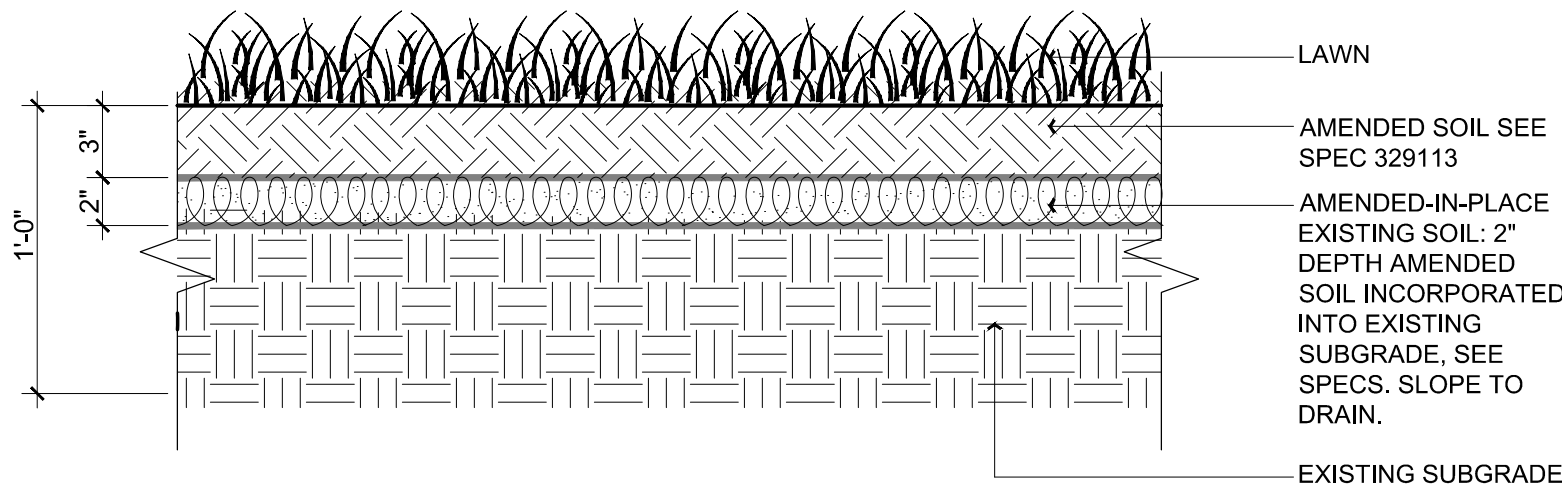
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. FINAL TREE STAKING PLACEMENT TO BE APPROVED BY OWNER.
3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
4. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHEN EVER POSSIBLE.
5. IF PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN (8 IN.) INTO PLANTING HOLE.
6. REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOTBALL.
7. SET TREE PLUMB IN PLANTING PIT.
8. EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.



BALL SIZE	PIT WIDTH AT BOTTOM
UP TO 48"	DIA. OF BALL + 2'
OVER 48"	1 3/4 X DIA. OF BALL

1 TREE PLANTING

SCALE: 1/2" = 1'-0"



2 FILL SYSTEM TYPE 1 - TURF GRASS

SCALE: 1 1/2" = 1'-0"



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DATE	PROJ. NUMBER	ARCH	PROJ. MGR	CADD
12/4/2015	648150010	STAFF	STAFF	STAFF

DEER RUN LAND, LLC  
DEER RUN - SUBAREA A FINAL DEVELOPMENT PLAN  
LANDSCAPE DETAILS

SHEET

21  
OF 21

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